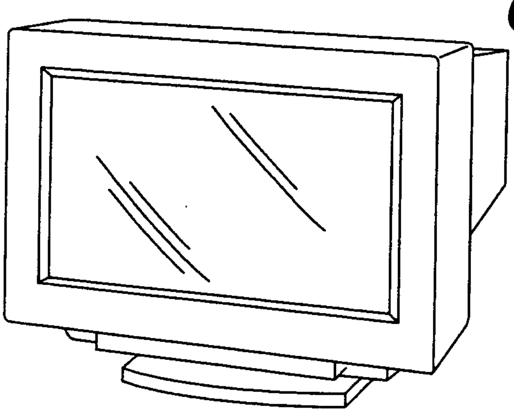
V17875

GDM-W900

SERVICE MANUAL

US Model
Canadian Model
AEP Model
Chassis No. SCC-K49A-A

Multiscan®



W1 CHASSIS

SPECIFICATIONS

Picture tube	0.25 – 0.28 mm aperture grille pitch 24 inches measured diagonally 90-degree deflection
Viewable image size	Approx. 482 × 304 mm (w/h) (19 × 12 inches) 22.5″ viewing image
Resolution	Horizontal: Max. 1920 dots Vertical: Max. 1200 lines
Standard image area	Approx. 473 × 296 mm (w/h) (18 5/8 × 11 3/4 inches)
Deflection frequency	Horizontal: 30 to 96 kHz Vertical: 50 to 160 Hz
Input	HD15 (1), 5 BNC (1) R/G/B: 75 Ω, 0.714 Vp-p, positive HD/VD or Composite sync Sync-on-green: 0.286 Vp-p, negative
AC input voltage/current	100 to 120 V, 50/60 Hz, 2.2 A 200 to 240 V, 50 – 60 Hz, 1.4 A
Power consumption	Max. 200 W
Dimensions	580 × 500 × 548 mm (w/h/d) (22 7/8 × 19 3/4 × 21 5/8 inches)
Mass	Approx. 41 kg (90 lb 6 oz)

Design and specifications are subject to change without notice.

TRINITRON® COLOR GRAPHIC DISPLAY

MICROFILM

SONY®

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

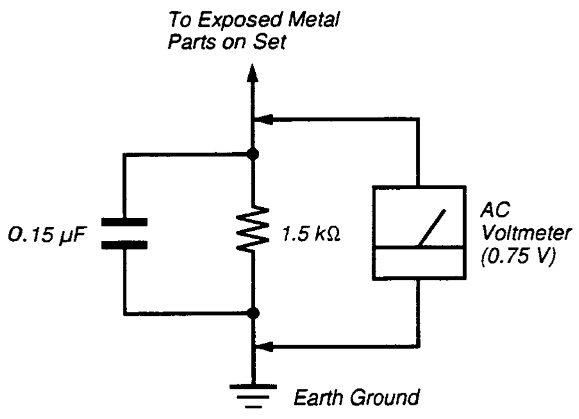


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!
NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!
NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.

POWER SAVING FUNCTION

This monitor is capable of three states of reduced power consumption. By sensing the absence of video signals and one or both sync signals coming from the host computer, it will reduce power consumption as follows.

Power consumption state	Power consumption	Recovery time	☼ power saving indicator	⏻ power indicator
1 Normal operation	≤ 200 W	–	Off	Green on
2 Standby (1st state)	≤ 140 W	Approx. 3 sec.	Orange on	Green on
3 Suspend (2nd state)	≤ 15 W	Approx. 3 sec.	Orange on	Green on
4 Active-off (3rd state)	≤ 8 W	Approx. 10 sec.	Orange on	Off
5 Power-off	0 W	–	Off	Off

DIAGNOSIS

Failure	Power Saving LED	Power LED
HV, +B failure	Off	Blink Amber
Horizontal/Vertical deflection failure, thermal protector	Blink Amber	Off
ABL protector	Blink Amber	Blink Amber
Aging/Self Test	Off	Amber (0.5 sec) → Off (0.5 sec) → Green (0.5 sec) → Off (0.5 sec) →

Aging Mode: Video aging	During Power Save, press "OPTION" Key for longer than 2 seconds.
Self Test: OSD color-bar indication	During Power Save, press "CONTRAST+" Key for longer than 2 seconds.
Self Test: OSD All White indication	During Poewr Save, press "COLOR" key for longer than 2 seconds.

TIMING SPECIFICATION

PRIMARY MODE							PRIMARY		
MODE AT PRODUCTION	MODE1	MODE2	MODE3	MODE4	MODE5	MODE6	MODE7	MODE8	MODE9
RESOLUTION	640 X 480	1280 X 1024	1600 X 1200	1920 X 1080	1920 X 1080	1600 X 1024	1920 X 1200	720 X 400	1920 X 1035
CLOCK	25.175 MHz	135.000 MHz	202.500 MHz	159.840 MHz	216.023 MHz	170.447 MHz	245.480 MHz	28.322 MHz	74.250 MHz
— HORIZONTAL —									
H-FREQ	31.469 kHz	79.976 kHz	93.750 kHz	67.500 kHz	84.384 kHz	81.320 kHz	95.000 kHz	31.469 kHz	33.750 kHz
	µsec	µsec	µsec	µsec	µsec	µsec	µsec	µsec	µsec
H. TOTAL	31.778	12.504	10.667	14.815	11.851	12.297	10.526	31.777	29.630
H. BLK	6.356	3.022	2.765	2.803	2.963	2.910	2.705	6.355	3.771
H. FP	0.636	0.119	0.316	0.200	0.222	0.188	0.261	0.636	0.593
H. SYNC	3.813	1.067	0.948	0.901	1.000	0.939	1.043	3.813	1.185
H. BP	1.907	1.837	1.501	1.702	1.741	1.784	1.401	1.907	1.993
H. ACTIV	25.422	9.481	7.901	12.012	8.888	9.387	7.821	25.422	25.859
— VERTICAL —									
V. FREQ(HZ)	59.940 Hz	75.025 Hz	75.000 Hz	60.000 Hz	72.000 Hz	76.000 Hz	76.000 Hz	70.087 Hz	60.000 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	525	1066	1250	1125	1172	1070	1250	449	562.5
V. BLK	45	42	50	45	92	46	50	49	45
V. FP	10	1	1	3	3	3	3	12	5
V. SYNC	2	3	3	3	3	3	3	2	5
V. BP	33	38	46	39	86	40	44	35	35
V. ACTIV	480	1024	1200	1080	1080	1024	1200	400	517.5
— SYNC —									
INT(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXT(H/V)/POLARITY	YES N/N	YES P/P	YES P/P	YES N/N	YES N/N	YES N/N	YES N/N	YES N/P	YES N/N
EXT(CS)/POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	INT

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The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

SECTION 1
GENERAL

Connections

Before using this monitor, check that the following items are included in your package:
- Monitor (1)
- Video signal cable (1)
- Power cord (1)
- Macintosh[1] adapter (1)
- HD15 (Female) -HD15 (Male without the No. 9 pin) adapter (1)
- Warranty card (1)
- This operating instructions (1)

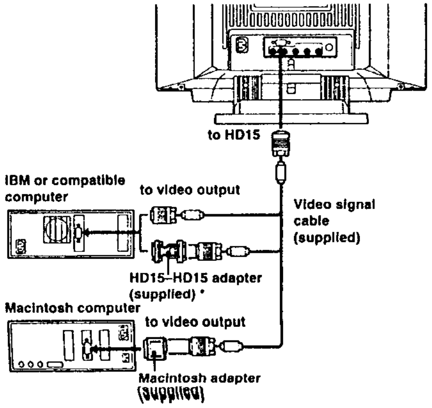
This monitor will sync with any IBM or compatible system equipped with VGA[2] or greater graphics capability. Although this monitor will sync with other platforms, a cable adapter is required. Please consult your dealer for advice on which adapter is suitable for your needs.

Step 1: Connect the monitor to the computer.

With the computer switched off, connect the video signal cable to the monitor (HD15/5 BNC's) and connect the other end to the video output.
To connect the HD15 connector, use the supplied video signal cable.
To connect the 5 BNC's connector, use the SMF-400 video signal cable (not supplied).

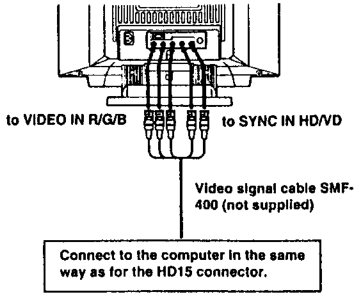
Note
Do not touch the pins of the video signal cable.

Connecting to the HD15 connector


to HD15
IBM or compatible computer
to video output
Video signal cable (supplied)
HD15-HD15 adapter (supplied) *
Macintosh computer
to video output
Macintosh adapter (supplied)

* The HD15-HD15 adapter may be needed for some models.

Connecting to the 5 BNC's connector



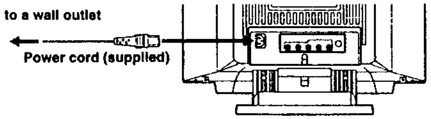
Connect to the computer in the same way as for the HD15 connector.

For the customers using IBM PC or IBM compatible system which is not compatible with DDC2AB and DDC2B+
This monitor uses a No. 9 pin in the video signal connector for DDC2AB and DDC2B+ compatibility.
Some PC systems which are not compatible with either DDC2AB or DDC2B+ may not accept the No. 9 pin. If you are not sure whether your PC system accepts the No. 9 pin or not, use the HD15 (Female) - HD15 (Male without the No. 9 pin) adapter (supplied). Make sure that the male side (without the No. 9 pin) is connected to the computer.

For the customers using the Macintosh computer
Supplied Macintosh adapter is compatible with Macintosh LC, Performa, Quadra and Power macintosh series computers. Macintosh II series and some older version of PowerBook models may need an adapter with micro switches.

Step 2: Connect the power cord.

With the monitor switched off, connect the power cord to the monitor and the other end to the power outlet.



The installation of your monitor is complete. Enjoy your monitor.

Notice
To comply with the limits of FCC class B and IC Class B for digital device, please attach supplied video signal cable for HD15 input or SMF-400 (not supplied) for BNC input. Furthermore, each cable must have ferrite cores in it.

---

[1] Macintosh and Power Macintosh are trademarks of Apple Computer Inc.

[2] VGA is a trademark of IBM Corporation.

Preset Modes

Preset modes

The monitor has nine factory preset modes for true "Plug & Play" capability.

Table of preset modes

No.	Resolution (dotsxlines)	Horizontal Frequency	Vertical Frequency	Graphic mode
1	640 × 480	31.5 kHz	60 Hz	VGA Graphic
2	720 × 400	31.5 kHz	70 Hz	VGA Text
3	1280 × 1024	80.0 kHz	75 Hz	VESA[1]
4	1600 × 1200	93.8 kHz	75 Hz	VESA
5	1920 × 1080	67.5 kHz	60 Hz	Sony
6	1920 × 1080	84.4 kHz	72 Hz	Sony
7	1600 × 1024	81.3 kHz	76 Hz	Sony
8	1920 × 1200	95.0 kHz	76 Hz	Sony
9	1920 × 1035	33.8 kHz	60 Hz	HDTV

[1] VESA is a trademark of Video Electronics Standard Association.

User modes

When using a video mode that is not one of the preset modes, some fine tuning may be required to optimize the display to your preference. Simply adjust the monitor according to the adjustments instructions on pages 9 to 15. The adjustments will be stored automatically and recalled whenever that mode is used.
A total of 16 user-defined modes can be stored in memory. If a 17th mode is entered, it will replace the first.

For less common modes, and modes that may evolve in the future, the Digital Multiscan Technology of this monitor will perform all of the complex adjustments necessary to ensure a high quality picture for any timing in its frequency range. However, due to the wide variety of video boards on the market, it may be necessary for the user to fine tune the vertical/horizontal size and centering.

Recommended horizontal timing conditions
Horizontal sync width should be more than 0.8 µsec.
Horizontal blanking width should be more than 2.7 µsec.

Note for Windows®[2] users
Check your video board manual or the utility program which comes with your graphic board and select the highest available refresh rate to maximize monitor performance.

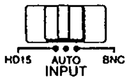
[2] Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Selecting the Input Signal

This monitor has two signal input connectors and can connect two computers. When the power of both computers is on, select the signal you want to input as follows.

1 **Turn on power of the monitor and the computer.**

2 **Select the input signal.**



To input the signal from the computer connected to the 5 BNC's connector
Set the INPUT switch to BNC.

To input the signal from the computer connected to the HD15 connector
Set the INPUT switch to HD15.

If only one computer is connected or turned on
Set the INPUT switch to AUTO (center position). The input signal is automatically selected.

3 **If necessary, adjust the user controls according to your preference on pages 9 to 15.**

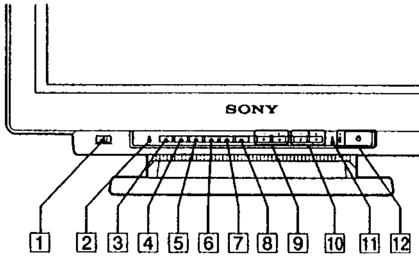
When you set the INPUT switch to "AUTO"and connect computers to both connectors
If you turn on or restart the computer you want to input a signal from, or the computer is in power saving mode, the monitor may automatically select another computer's signal. This is because no signal is input to the monitor at that moment. If this happens, select the signal using the INPUT switch.

For the customers using the Windows95
Even if you select SONY for the maker on the device select screen, the model name (GDM-W900) may not appear. In this case, select the DDC standard monitor.

Functions of Controls

See the given pages for further description.

Front



[1] **INPUT switch (page 5)**
Selects the input signal.

[2] **RESET button (page 12)**
Resets the adjustment to the factory preset levels.

[3] **OPTION button (pages 8, 9, 13, 16)**
Displays the "OPTION" OSD (On Screen Display).

[4] **COLOR button (pages 12, 15)**
Displays the "COLOR" OSD to adjust color temperature.

[5] **SCREEN button (pages 11, 14)**
Displays the "SCREEN" OSD to adjust the vertical and horizontal convergence, etc.

[6] **GEOM (geometry) button (pages 10, 14)**
Displays the "GEOMETRY" OSD to adjust the picture rotation and pincushion, etc.

[7] **SIZE button (pages 10, 14)**
Displays the "SIZE" OSD to adjust the picture size.

[8] **CENT (center) button (pages 10, 14)**
Displays the "CENTER" OSD to adjust the picture position.

[9] **☼ (brightness) –/+ (⬇/⬆) buttons (pages 8 – 16)**
Adjust the picture brightness.

Act as the –/+ (⬇/⬆) buttons when adjusting other items.

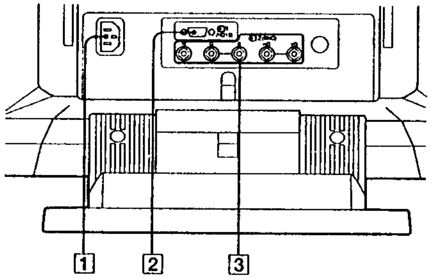
[10] **◑ (contrast) –/+ (⬅/➡) buttons (pages 8 – 16)**
Adjust the contrast.

Act as the –/+ (⬅/➡) buttons when adjusting other items.

[11] **POWER SAVING indicator (page 17)**
Lights up when the monitor is in the Power Saving Mode.

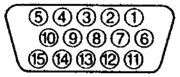
[12] **⏻ power switch and indicator (page 17)**
Turns the monitor on or off. The indicator lights up when the monitor is turned on.

Rear



[1] **AC IN connector**
Plug in an AC power cord.

[2] **Video input 1 connector (HD15)**
Inputs RGB video signal (0.714 Vp-p, positive) and SYNC signal.

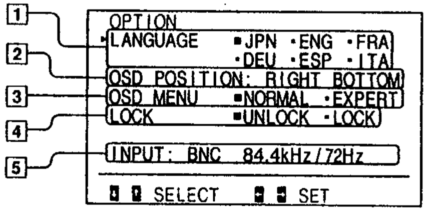


Pin No.	Signal	Pin No.	Signal
1	Red	8	Blue Ground
2	Green (Composite Sync on Green)	9	DDC + 5V*
		10	Ground
		11	Ground
3	Blue	12	Bi-Directional Data (SDA)*
4	Ground		
5	DDC Ground*	13	H. Sync
6	Red Ground	14	V. Sync
7	Green Ground	15	Data Clock(SCL)*

* Display Data Channel (DDC) Standard by VESA

[3] **Video input 2 connector (5 BNC)**
Inputs RGB video signal (0.714 Vp-p, positive).

OPTION OSD



OPTION
LANGUAGE ■JPN ·ENG ·FRA ·DEU ·ESP ·ITA
OSD POSITION: RIGHT BOTTOM
OSD MENU ■NORMAL ·EXPERT
LOCK ■UNLOCK ·LOCK
INPUT: BNC 84.4kHz/72Hz

[1] **LANGUAGE (page 8)**
Selects an OSD language, Japanese, English, French, German, Spanish, or Italian.

[2] **OSD POSITION (page 8)**
Changes the OSD position to be displayed.

[3] **OSD MENU (pages 9, 13)**
Selects the adjustment mode, normal or expert.

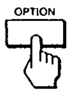
[4] **LOCK (page 16)**
Turns on or off the control lock function.

[5] **INPUT (pages 5, 18)**
Shows the current active connector, the BNC connectors or the HD15 connector, and the signal frequency.

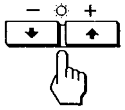
Selecting the OSD Language

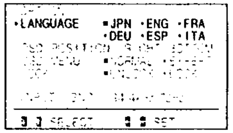
Japanese, English, French, German, Spanish, or Italian versions of OSD are available.

1 Press the OPTION button.
The "OPTION" OSD appears.



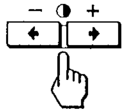
2 Press the ☼↓/↑ button to select "LANGUAGE."





```
•LANGUAGE    ■JPN  •ENG  •FRA
             •DEU  •ESP  •ITA
```

3 Press the ◑←/→ button to select the desired language.



JPN: Japanese, ENG: English, FRA: French,
DEU: German, ESP: Spanish, ITA: Italian

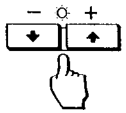
The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the OPTION button again.

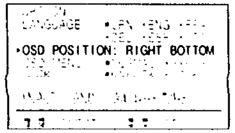
Changing the OSD Position

You can change the OSD position, for example, when you want to adjust the picture behind the OSD.

1 Press the OPTION button.
The "OPTION" OSD appears.

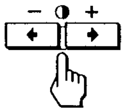
2 Press the ☼↓/↑ button to select "OSD POSITION".





```
•OSD POSITION: RIGHT BOTTOM
```

3 Press the ◑←/→ button to move the OSD to the desired position.

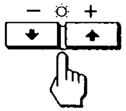


The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the OPTION button again.

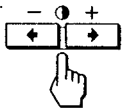
Operating the OSD

Select a parameter using the ☼↓/↑ buttons in the OSD which parameters are arranged in vertical row, and adjust or select the setting of the selected parameter using the ◑←/→ buttons.

To select a parameter to adjust or select the setting, press ☼↓ or ↑ button.
The green ▶ mark goes to the selected parameter and the parameter becomes yellow.



To adjust or select the settings of the selected parameter, press ◑← or → button.
When adjusting, the bar length and the figure increase or decrease.
When selecting the setting, the green ■ goes to the selected setting.



Adjustments (Normal mode)

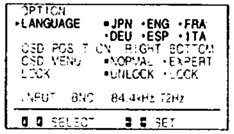
You can adjust the picture to your preference.
This monitor has two levels of adjustment mode, normal and expert.

Before adjusting

- Connect the monitor and the computer, turn them on and feed the signal to the monitor.
- Select "LANGUAGE" in the "OPTION" OSD, then select "ENG" (English) on page 8.

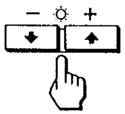
Selecting the normal mode

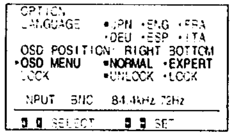
1 Press the OPTION button.
The "OPTION" OSD appears.



```
OPTION
•LANGUAGE    ■JPN  •ENG  •FRA
             •DEU  •ESP  •ITA
OSD POSITION  RIGHT BOTTOM
OSD MENU     ■NORMAL  •EXPERT
LOCK         ■UNLOCK  •LOCK

INPUT  BNC  84.4kHz 72Hz
SELECT          SET
```

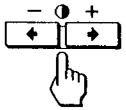
2 Press the ☼↓/↑ button to select "OSD MENU."
The "OSD MENU" becomes yellow.

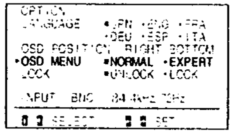




```
OPTION
LANGUAGE     ■JPN  •ENG  •FRA
             •DEU  •ESP  •ITA
OSD POSITION  RIGHT BOTTOM
•OSD MENU    ■NORMAL  •EXPERT
LOCK         ■UNLOCK  •LOCK

INPUT  BNC  84.4kHz 72Hz
SELECT          SET
```

3 Press the ◑←/→ button to select NORMAL.
Move the green ■ to NORMAL.





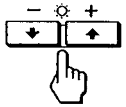
```
OPTION
LANGUAGE     ■JPN  •ENG  •FRA
             •DEU  •ESP  •ITA
OSD POSITION  RIGHT BOTTOM
•OSD MENU    ■NORMAL  •EXPERT
LOCK         ■UNLOCK  •LOCK

INPUT  BNC  84.4kHz 72Hz
SELECT          SET
```

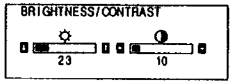
The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the OPTION button again.

Adjusting the picture brightness

The adjustment data becomes the common setting for all input signals received.

1 Press the ☼ (brightness) ↓/↑ button.
The "BRIGHTNESS/CONTRAST" OSD appears.





```
BRIGHTNESS/CONTRAST
     ☼            ◑
    23           10
```

2 Press the ☼↓/↑ button again to adjust picture brightness.
↓ . . . for less brightness
↑ . . . for more brightness

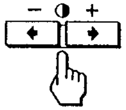
The OSD automatically disappears after about 3 seconds.

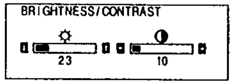
To reset, press the RESET button while the OSD is on. The brightness and contrast are both reset.

Adjusting the picture contrast

The adjustment data becomes the common setting for all input signals received.

1 Press the ◑ (contrast) ←/→ button.
The "BRIGHTNESS/CONTRAST" OSD appears.





```
BRIGHTNESS/CONTRAST
     ☼            ◑
    23           10
```

2 Press the ◑←/→ button again to adjust picture contrast.
← . . . for less contrast
→ . . . for more contrast

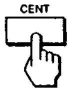
The OSD automatically disappears after about 3 seconds.

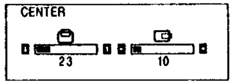
To reset, press the RESET button while the OSD is on. The brightness and contrast are both reset.

Adjusting the picture centering

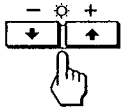
The adjustment data becomes the individual setting for each input signal received.

1 Press the CENT button.
The "CENTER" OSD appears.



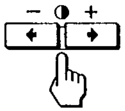


2 For vertical adjustment
Press the ☼ ↓/↑ buttons.



↓ . . . to move down
↑ . . . to move up

For horizontal adjustment
Press the ◑ ←/→ buttons.



← . . . to move left
→ . . . to move right

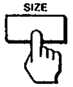
The OSD automatically disappears after about 10 seconds. To turn off the OSD, press the CENT button again.

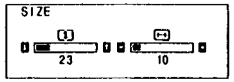
To reset, press the RESET button while the OSD is on. The horizontal and vertical centerings are both reset.

Adjusting the picture size

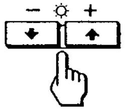
The adjustment data becomes the individual setting for each input signal received.

1 Press the SIZE button.
The "SIZE" OSD appears.



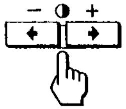


2 For vertical adjustment
Press the ☼ ↓/↑ buttons.



↓ . . . to decrease
↑ . . . to increase

For horizontal adjustment
Press the ◑ ←/→ buttons.



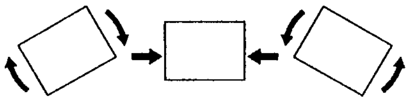
← . . . to decrease
→ . . . to increase

The OSD automatically disappears after about 10 seconds. To turn off the OSD, press the SIZE button again.

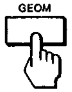
To reset, press the RESET button while the OSD is on. The horizontal and vertical sizes are both reset.

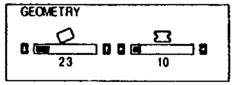
Adjusting the picture rotation

The adjustment data becomes the common setting for all input signals received.

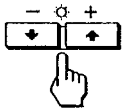


1 Press the GEOM button.
The "GEOMETRY" OSD appears.





2 Press the ☼↓/↑ buttons.



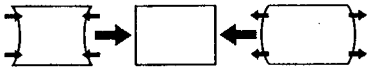
↓ . . . to rotate counterclockwise
↑ . . . to rotate clockwise

The OSD automatically disappears after about 10 seconds. To turn off the OSD, press the GEOM button again.

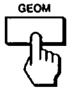
To reset, press the RESET button while the OSD is on. The picture rotation and the pincushion settings are both reset.

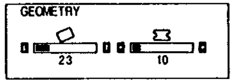
Adjusting the pincushion

The adjustment data becomes the individual setting for each input signal received.

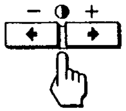


1 Press the GEOM button.
The "GEOMETRY" OSD appears.





2 Press the ◑←/→ button so that the picture edges become straight.

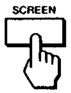


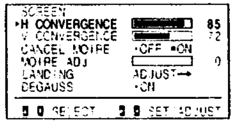
The OSD automatically disappears after about 10 seconds. To turn off the OSD, press the GEOM button again.

To reset, press the RESET button while the OSD is on. The picture rotation and the pincushion settings are both reset.

Adjusting the screen

1 Press the SCREEN button.
The "SCREEN" OSD appears.





2 Press the ☼↓/↑ button to select the parameter you want to adjust referring to the following.
The selected parameter turns yellow.

The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the SCREEN button again.

To reset, press the RESET button while the OSD is on. The selected parameter is reset.

Convergence

The adjustment data becomes the common setting for all input signals received.

Press the ◑←/→ button so that the red or blue shadow disappears.

"H CONVERGENCE" (Horizontal convergence)
← . . . to move Red to the left and Blue to the right
→ . . . to move Red to the right and Blue to the left

"V CONVERGENCE" (Vertical convergence)
← . . . to move Red down and Blue up
→ . . . to move Red up and Blue down

Canceling the Moire

The adjustment data becomes the individual setting for each input signal received.

Press the ◑←/→ button to select "ON" for "CANCEL MOIRE."

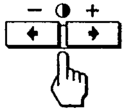
If the picture becomes unclear
The picure may become unclear by canceling moire.

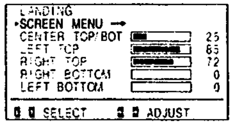
1. **Press the ☼↓/↑ button to select "MOIRE ADJ."**
2. **Press the ◑←/→ button to adjust beginning from 0 until the moire is minimum.**

Landing

Correct when the color is not uniform due to influence from the earth's magnetizm.
The adjustment data becomes the common setting for all input signals received.
First, degauss the screen, then display an entirely white picture for more than 20 minutes before the adjustment to adjust more accurately.

1. **Press the ☼↓/↑ button to select "DEGAUSS."**
2. **Press the ◑→ button.**
   The screen is degaussed for about five seconds.
3. **Press the ☼↓/↑ button to select "LANDING."**
4. **Press the ◑→ button.**
   The "LANDING" OSD appears on the screen.





5. **Press the ☼↓/↑ button to select the position, and adjust by pressing the ◑ ←/→ button.**

To return to the "SCREEN" OSD, select "SCREEN MENU →" and press the ◑→ button.

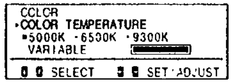
To reset, press the RESET button while the OSD is on. The selected parameter is reset.

Adjustments (Normal mode)

Adjusting the color temperature

The adjustment data becomes the common setting for all input signals received.

1 Press the COLOR button.
The "COLOR" OSD appears.



```
 CCLCR
•COLOR TEMPERATURE
 ■5000K ·6500K ·9300K
  VARIABLE
 ─────────────────────────
 ▮ ▮ SELECT   ▮ ▮ SET·ADJUST
```

2 Press the ◑←/→ buttons to select a color temperature.
The factory settings are:
5000K, 6500K, 9300K

Adjusting the color temperature
Press the ☼↓/↑ button to select "VARIABLE," and adjust by pressing the ◑←/→ button.
The figure of the adjusted color temperature changes.

The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the COLOR button again.

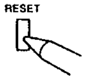
To reset, press the RESET button while the OSD is on. The selected color tempetarure is reset. The adjustments you made in the expert mode (page 15) are also reset.

Resetting to the factory-preset levels

1 Press the button of the OSD you want to reset to the factory setting.

2 When the parameters are arranged in vertical row in the OSD, select a parameter you want to reset by pressing the ☼↓/↑ buttons.

3 Press the RESET button.



Resetting all adjustment data

When there is no OSD displayed, press and hold the RESET button for more than two seconds.
All adjustment data including the brightness and contrast are reset to factory-preset levels.

Resetting the picture size, position, moire, and geometry* at the same time

When there is no OSD displayed, press and hold the RESET button for one second.
The above items of the current input signal are reset to factory-preset levels.

* The "Rotation" adjustment (pages 10, 14) is not reset.

Adjustments (Expert mode)

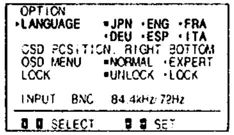
You can adjust more in detail in the expert mode than in the normal mode.

Before adjusting

- Connect the monitor and the computer, turn them on and feed the signal to the monitor.
- Select "LANGUAGE" in the "OPTION" OSD, then select "ENG" (English) on page 8.

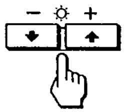
Selecting the expert mode

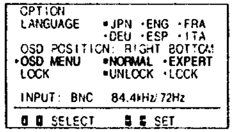
1 Press the OPTION button.
The "OPTION" OSD appears.



```
 OPTION
•LANGUAGE      ■JPN ·ENG ·FRA
               ·DEU ·ESP ·ITA
 OSD POSITION. RIGHT BOTTOM
 OSD MENU      ■NORMAL ·EXPERT
 LOCK          ■UNLOCK ·LOCK

 INPUT  BNC   84.4kHz/72Hz
 ──────────────────────────
 ▮ ▮ SELECT   ▮ ▮ SET
```

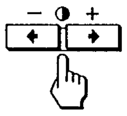
2 Press the ☼↓/↑ button to select "OSD MENU."
The "OSD MENU" turns yellow.

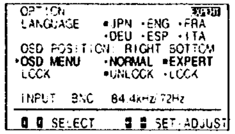




```
 OPTION
 LANGUAGE      ■JPN ·ENG ·FRA
               ·DEU ·ESP ·ITA
 OSD POSITION: RIGHT BOTTOM
•OSD MENU      ■NORMAL ·EXPERT
 LOCK          ■UNLOCK ·LOCK

 INPUT:  BNC   84.4kHz/72Hz
 ──────────────────────────
 ▮ ▮ SELECT   ▮ ▮ SET
```

3 Press the ◑←/→ button to select "EXPERT."
Move the green ■ to EXPERT.
EXPERT appears at the top right corner of the OSD in Expert mode.





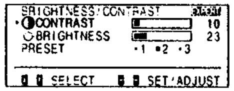
```
 OPTION                        EXPERT
 LANGUAGE      ■JPN ·ENG ·FRA
               ·DEU ·ESP ·ITA
 OSD POSITION: RIGHT BOTTOM
•OSD MENU      ·NORMAL ■EXPERT
 LOCK          ■UNLOCK ·LOCK

 INPUT  BNC   84.4kHz/72Hz
 ──────────────────────────
 ▮ ▮ SELECT   ▮ ▮ SET·ADJUST
```

The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the OPTION button again.

Adjusting the picture brightness and contrast

The adjustment data becomes the common setting for all input signals received.

1 Press the ☼↓/↑ button or the ◑←/→ button.
The "BRIGHTNESS/CONTRAST" OSD appears.



```
 BRIGHTNESS/CONTRAST         EXPERT
•◑CONTRAST                    10
 ☼BRIGHTNESS                  23
 PRESET           ·1 ■2 ·3
 ─────────────────────────────
 ▮ ▮ SELECT   ▮ ▮ SET/ADJUST
```

2 Press the ☼↓/↑ button to select "PRESET" and the ◑ ←/→ button to select a preset number.
When you want to use the monitor later in the same condition, just select the same preset number.

3 Press the ☼↓/↑ button or the ◑←/→ button to adjust the brightness or contrast.
☼ BRIGHTNESS:
Adjusts the picture brightness.
◑ CONTRAST:
Adjusts the picture contrast.

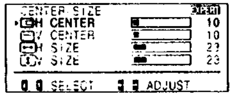
The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the ☼↓/↑ or ◑←/→ button again.

To reset, press the RESET button while the OSD is on. The selected preset number is reset.

Adjusting the picture centering and size

The adjustment data becomes the individual setting for each input signal received.

1 **Press the SIZE button or the CENT button.**
The "CENTER/SIZE" OSD appears.



```
CENTER/SIZE                 EXPERT
▸H CENTER                       10
 V CENTER                       10
 H SIZE                         23
 V SIZE                         23
SELECT            ADJUST
```

2 **Press the ☼↓/↑ button to select and the ◐←/→ button to adjust the parameter.**

H CENTER:
Adjusts the picture position in horizontal direction.

V CENTER:
Adjusts the picture position in vertical direction.

H SIZE:
Adjusts the picture size in horizontal direction.

V SIZE:
Adjusts the picture size in vertical direction.

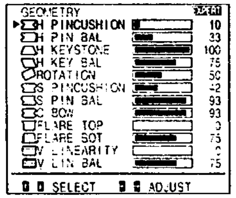
The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the SIZE or CENT button again.

To reset, press the RESET button while the OSD is on. The selected parameter is reset.

Adjusting the picture rotation and the pincushion

The adjustment data becomes the individual setting for each input signal received.

1 **Press the GEOM button.**
The "GEOMETRY" OSD appears.



```
GEOMETRY                    EXPERT
▸H PINCUSHION                   10
 H PIN BAL                      33
 H KEYSTONE                    100
 H KEY BAL                      75
 ROTATION                       50
 S PINCUSHION                   42
 S PIN BAL                      93
 C BOW                          93
 FLARE TOP                       0
 FLARE BOT                      75
 V LINEARITY                     0
 V LIN BAL                      75
SELECT            ADJUST
```

2 **Press the ☼↓/↑ button to select and the ◐←/→ button to adjust the parameter.**

H PINCUSHION/ H PIN BAL:
Corrects the picture distortion of the picture edges.

H KEYSTONE:
Corrects the difference of picture size at the top and bottom.

H KEY BAL:
Corrects the imbalance of picture position at the top and bottom.

ROTATION:
Corrects the picture rotation.

S PINCUSHION/ S PIN BAL/ C BOW:
Corrects the wavy distortion of the picture edges.

FLARE TOP/ FLARE BOT:
Corrects the flare distortion of the picture at the top and bottom.

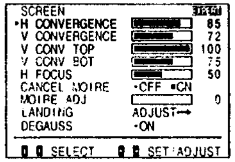
V LINEARITY/ V LIN BAL:
Corrects the vertical linearity and the vertical linearity balance.

The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the GEOM button again.

To reset, press the RESET button while the OSD is on. The selected parameter is reset.

Adjusting the screen

1 **Press the SCREEN button.**
The "SCREEN" OSD appears.



```
SCREEN                      EXPERT
▸H CONVERGENCE                  85
 V CONVERGENCE                  72
 V CONV TOP                    100
 V CONV BOT                     75
 H FOCUS                        50
 CANCEL MOIRE      •OFF •ON
 MOIRE ADJ                       0
 LANDING           ADJUST→
 DEGAUSS           •ON
SELECT            SET/ADJUST
```

2 **Press the ☼↓/↑ button to select and the ◐←/→ button to adjust the parameter.**

H CONVERGENCE/V CONVERGENCE:
Adjusts the horizontal convergence and the vertical convergence.
The adjustment data becomes the common setting for all input signals received.

V CONV TOP/V CONV BOT:
Adjusts the vertical convergence at the top and bottom of the screen.
The adjustment data becomes the common setting for all input signals received.

H FOCUS:
Adjusts the horizontal focusing.
The adjustment data becomes the common setting for all input signals received.

CANCEL MOIRE:
Cancels the moire when "ON" is selected.
The adjustment data becomes the individual setting for each input signal received.

MOIRE ADJ:
Reduces fuzziress of the picture caused by canceling moire.
Adjust beginning from 0 until the moire is minimum.
The adjustment data becomes the individual setting for each input signal received.

LANDING:
See "Landing" on page 11.
The adjustment data becomes the common setting for all input signals received.

DEGAUSS:
See "Degaussing the screen" on page 16.

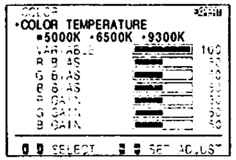
The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the SCREEN button again.

To reset, press the RESET button while the OSD is on. The selected parameter is reset.

Adjusting the color

The adjustment data becomes the common setting for all input signals received.

1 **Press the COLOR button.**
The "COLOR" OSD appears.



```
COLOR                       EXPERT
▸COLOR TEMPERATURE
   ■5000K •6500K •9300K
   VARIABLE                    100
   R BIAS
   G BIAS
   B BIAS
   R GAIN
   G GAIN
   B GAIN
SELECT            SET/ADJUST
```

2 **Press the ◐←/→ button to select the color temperature to adjust, 5000, 6500 or 9300.**

3 **Press the ☼↓/↑ button to select and the ◐←/→ button to adjust the parameter.**

VARIABLE:
Adjusts the color selected in step 2 to the desired color temperature. The figure of the selected color temperature changes.

R BIAS/G BIAS/B BIAS:
Adjusts the black level of each signal. "++" appears at the right shoulder of the adjusted color temperature.

R GAIN/G GAIN/B GAIN:
Adjusts the white level of each signal. "++" appears at the right shoulder of the adjusted color temperature.

The OSD automatically disappears after about 30 seconds. To turn off the OSD, press the COLOR button again.

To reset all parameters of a particular color temperature
Select the color temperature in step 2, and then press the RESET button. All parameters of the color temperature are reset and "++" at the right shoulder disappears.

To reset a particular parameter of a particular color temperature
Select the parameter in step 3, and then press the RESET button. Only the selected parameter of the color temperature is reset.

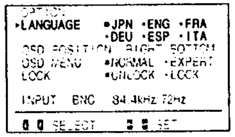
Resetting to the factory-preset levels

Reset in the same way as described in "Resetting to the factory-preset levels" on page 12.

Control Lock Function

The control lock function disables all the buttons on the front panel except the ⏻ (power) and OPTION buttons and the INPUT switch.

1 Press the OPTION button.
The "OPTION" OSD appears.



2 Press the ☼ ↓/↑ button to select "LOCK."

3 Press the ◑ ←/→ button to select "LOCK."

The "OPTION" OSD automatically disappears after about 30 seconds. To turn off the OSD, press the OPTION button again.

Once you select "LOCK," you cannot select other item on the "OPTION" OSD using the ☼ ↓/↑ button.
If you press any button other than the ⏻ (power) and OPTION buttons and the INPUT switch, the 🔑 mark appears on the screen.

To cancel the control lock

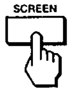
Press the ◑ ←/→ button to select "UNLOCK."

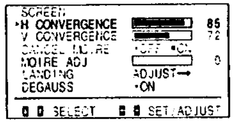
Note
Use the control lock function only when necessary.

Degaussing the Screen

The screen of the monitor is automatically degaussed when the power is turned on (page 3).
You can degauss manually.

1 Press the SCREEN button.
The "SCREEN" OSD appears.





2 Press the ☼ ↓/↑ button to select "DEGAUSS."

3 Press the ◑ → button.
The screen is degaussed for about five seconds.

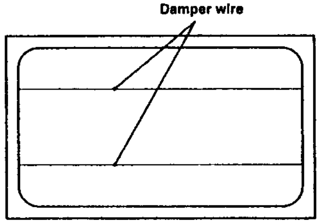
Plug & Play

This monitor complies with the DDC™1, DDC2B and DDC2AB which are the Display Data Channel (DDC) standards of VESA.
When a DDC1 host system is connected, the monitor synchronizes with the V. CLK in accordance with the VESA standards and outputs the EDID (Extended Display Identification Data) to the data line.
When a DDC2B or DDC2AB host system is connected, the monitor automatically switches to each communication.

DDC™ is a trademark of Video Electronics Standard Association.

Damper Wire

Using a white background, very thin horizontal lines on the screen are visible as shown below. These lines are damper wires.
The Trinitron tube has a vertically striped Aperture Grill inside. The Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.
These damper wires are attached to the Aperture Grille to prevent vibration of the Aperture Grille wire so that the screen image is constantly stable.



Power Saving Function

This monitor is capable of three states of reduced power consumption. By sensing the absence of video signals and one or both sync signals coming from the host computer, it will reduce power consumption as follows.

	Power consumption state	Power consumption	Recovery time	POWER SAVING indicator	⏻ (power) indicator
1	Normal operation	≤ 200 W	—	Off	Green on
2	Standby (1st state)	≤ 140 W	Approx. 3 sec.	Orange on	Green on
3	Suspend (2nd state)	≤ 15 W	Approx. 3 sec.	Orange on	Green on
4	Active-off (3rd state)	≤ 8 W	Approx. 10 sec.	Orange on	Off
5	Power-off	0 W	—	Off	Off

Power saving operation

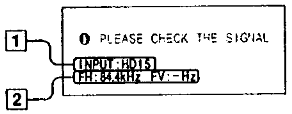
- The H-sync is not present.
  → The unit goes into standby state.
- The V-sync is not present.
  → The unit goes into suspend state.
- Both the H-sync and V-sync are not present.
  → The unit goes into active-off state.

The monitor requires a video card or screen saver software which switches off one or both sync signals to activate the power saving function.

Caution
If no video signal is input to the monitor, or if the INPUT switch is set to the connector to which no signal is input when you turn on the monitor, the input signal warning indicator (page 18) appears. After 30 seconds, the Power Saving function automatically puts the monitor into the Active-off state and the POWER SAVING indicator lights up. Once the horizontal and vertical syncs are sensed, the monitor will automatically return to its Normal operation state.

Input Signal Warning Function

If there is something wrong with the input signal, one of the following messages appears when you turn the monitor off and on, or when you operate the INPUT switch.
The message disappears after about 30 seconds.



1 **Shows the INPUT switch setting.**

2 **Shows the input signal condition.**

"FH: - kHz" indicates no horizontal sync signal.

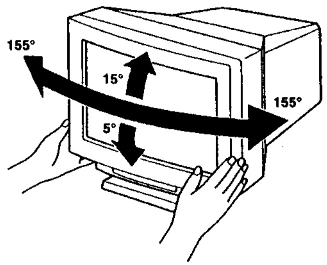
"FV: - Hz" indicates no vertical sync signal.

"OUT OF SCAN RANGE" indicates that the input signal is not supported by the monitor's specifications.

"NO CONNECTION" indicates that the supplied video signal cable is disconnected from the HD15 connector when the INPUT switch is set to "HD15."

Use of the Tilt-Swivel

With the tilt-swivel, this unit can be adjusted to be viewed at the desired angle within 310° horizontally and 20° vertically.
To turn the unit vertically and horizontally, hold it at its bottom with both hands as illustrated below.



Specifications

Picture tube	0.25 – 0.28 mm aperture grille pitch 24 inches measured diagonally 90-degree deflection
Viewable image size	Approx. 482 x 304 mm (w/h) (19 x 12 inches) 22.5" viewing image
Resolution	Horizontal: Max. 1920 dots Vertical: Max. 1200 lines
Standard image area	Approx. 473 x 296 mm (w/h) (18 5/8 x 11 3/4 inches)
Deflection frequency	Horizontal: 30 to 96 kHz Vertical: 50 to 160 Hz
Input	HD15 (1), 5 BNC (1) R/G/B: 75 Ω, 0.714 Vp-p, positive HD/VD or Composite sync Sync-on-green: 0.286 Vp-p, negative
AC input voltage/current	100 to 120 V, 50/60 Hz, 2.2 A 200 to 240 V, 50 – 60 Hz, 1.4 A
Power consumption	Max. 200 W
Dimensions	580 x 500 x 548 mm (w/h/d) (22 7/8 x 19 3/4 x 21 5/8 inches)
Mass	Approx. 41 kg (90 lb 6 oz)

Design and specifications are subject to change without notice.

Troubleshooting

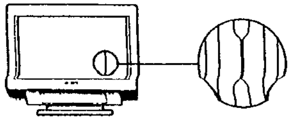
This section may help you isolate a problem and as a result, eliminate the need to contact technical support, allowing continued productivity.
Note the model name and the serial number of your monitor. Also note the make and name of your computer and video board.

Symptom	Check these items
No picture	
If neither ⏻ (power) indicator nor POWER SAVING indicator is lit	• Check that the power cord is properly connected. • Check that the ⏻ (power) switch is in the "on" position.
If the POWER SAVING indicator is lit	• Check that your computer power switch is in the "on" position. • The monitor will recover when you press any key on the keyboard of the computer. • The INPUT switch setting is incorrect. • Check that the video signal cable is properly connected and all plugs are firmly seated in their socket. • Check that the 5 BNC's are connected in the correct order (from the power cord side: Red–Green–Blue–HD–VD). • Ensure that no pins are bent or pushed in the HD15 video input connector. • Check that the video board is seated completely in the proper bus slot.
If the ⏻ (power) indicator is flashing in green	• Check that the video frequency range is within that specified for the monitor. (Horizontal: 30 – 96 kHz, Vertical: 50 – 160 Hz)
If the ⏻ (power) and/or POWER SAVING indicators are flashing in orange	• Turn the monitor off and on. If the indicator is off, the monitor is in the normal condition. If the indicator is still flashing, there is a potential monitor failure.
If you do the above procedures and the monitor does not recover	• Unplug the video input 1 and 2 connectors and wait for 5 seconds. Then press and hold the ◑ + button for 2 seconds to display the color bars. If the color bars appear, the monitor may be in normal condition. Turn the monitor off and on to return to the normal operation mode. If the color bars do not appear, there is a potential monitor failure.
If using a Macintosh system	• Check that the Macintosh adapter and the video signal cable are properly connected, and the dip switches of the adapter are properly set.
If using a Windows95	• When you cannot find "GDM-W900" among the Sony monitors on the Windows95 device select screen, select the DDC standard monitor.
Picture is scrambled	• Check your graphic board manual for proper monitor setting. • Check this manual and confirm that the graphic mode and the frequency at which you are trying to operate is supported (page 5). Even within the proper range some video boards may have a sync pulse that is too narrow for the monitor to sync correctly.
Color is not uniform	• Degauss the monitor (page 16). If you place equipment which generates a magnetic field such as a loudspeaker, or you change the direction of the monitor, color may lose uniformity. This function is to demagnetize the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. • Adjust the landing (page 11).
You cannot adjust the monitor with the buttons on the front panel	• If the control lock function is set to on, set it to off on the OPTION OSD (page 16). You will be able to adjust the monitor.
White does not look white	• Adjust color (page 12, 15). • Check that the 5 BNC's are connected in the correct order (from the power cord side: Red–Green–Blue–HD–VD).

Continued to the next page

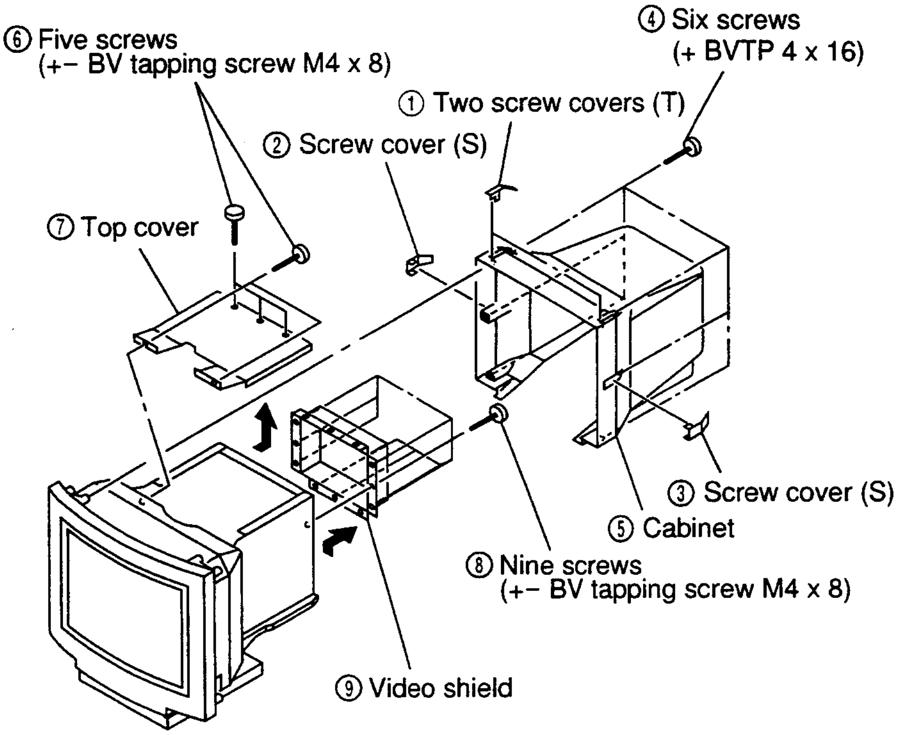
Troubleshooting

Symptom	Check these items
Screen image is not centered or sized properly	• Adjust the centering or size (pages 10, 14). • Some video modes do not fill the screen to the edge of the monitor. There is no single answer to solve the problem. This problem tends to occur on higher refresh timings.
Edges of the image are curved	• Adjust the geometry items such as pincushion and keystone distortion (page 11, 14).
White lines show red or blue shades at edges	• Adjust the convergence (pages 11, 14).
Picture is fuzzy	• Adjust the contrast and brightness (page 9). • Degauss the monitor (page 16). If you place equipment which generates a magnetic field such as a loudspeaker, or you change the direction of the monitor, color may lose uniformity. This function is to demagnetize the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. • If red or blue shades are found at the edge of images, adjust the convergence (pages 11, 14). • If the moire is cancelled, the picture may become fuzzy. Adjust so that the picture is as clear as possible (page 11, 15).
Picture bounces or has wavy oscillations	• Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting, laser printers, and so on. • If you have another monitor close to this monitor, increase the distance between them to reduce the interference. • Try plugging the monitor into a different AC outlet, preferably on a different circuit. • Try the monitor on a completely different computer in a different room.
Picture is not stable	• Set the refresh rate to non-interlace of 75 Hz or more on the computer referring to the computer's manual.
Picture appears to be ghosting	• Eliminate the use of video cable extension cable and/or video switch boxes if this symptom occurs. Excessive cable length or weak connection can produce this symptom.
Two fine horizontal lines (wires) are visible	• These wires stabilize the vertically striped Aperture Grille (page 17). This Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.
Wavy or elliptical (moire) pattern is visible	• Cancel the moire (page 11, 15). The moire may be modified depending on the connected computer. • Due to the relationship between resolution, monitor dot pitch and the pitch of some image patterns, certain screen backgrounds, especially gray, sometimes show moire. Change your desktop pattern.
Hum is heard right after the power is turned on	• When the power is turned on, the auto-degauss cycle is activated. While the Auto-degauss cycle is activated, a hum may be heard. This is not a malfunction.
Because of vibration and shock during transportation, the Aperture Grille may occasionally slip out of place and black stripes may appear	• Lightly pat the sides of the monitor.

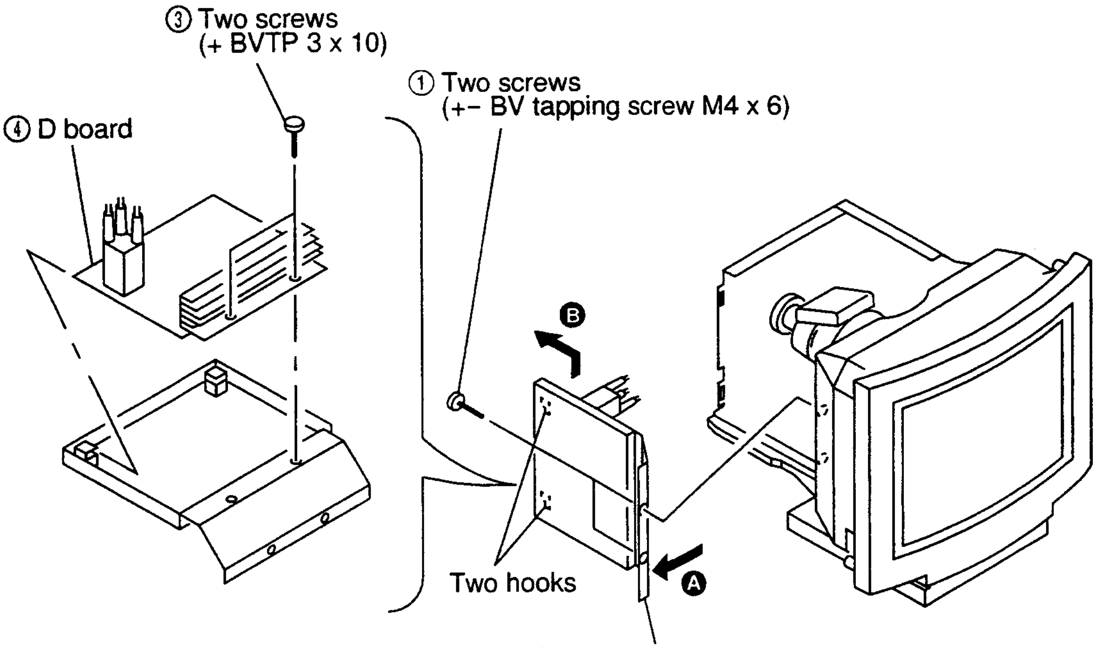


SECTION 2
DISASSEMBLY

2-1. CABINET REMOVAL

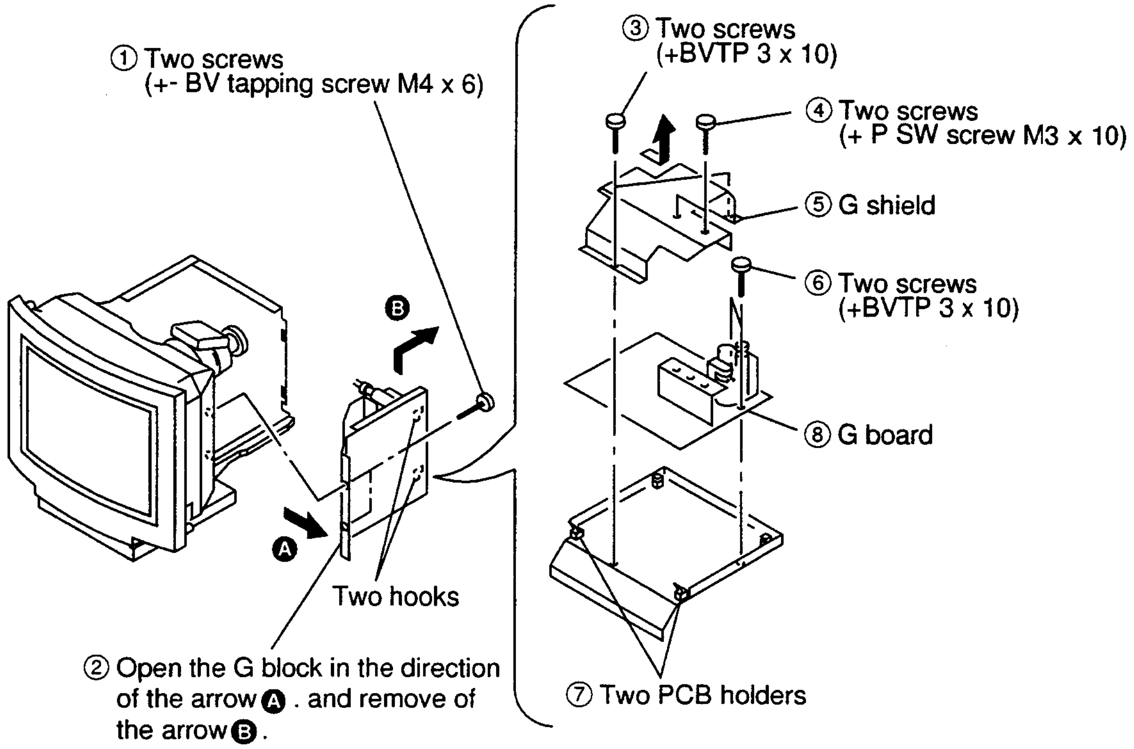

⑥ Five screws
(+– BV tapping screw M4 x 8)
④ Six screws
(+ BVTP 4 x 16)
① Two screw covers (T)
② Screw cover (S)
⑦ Top cover
③ Screw cover (S)
⑤ Cabinet
⑧ Nine screws
(+– BV tapping screw M4 x 8)
⑨ Video shield

2-2. D BOARD REMOVAL

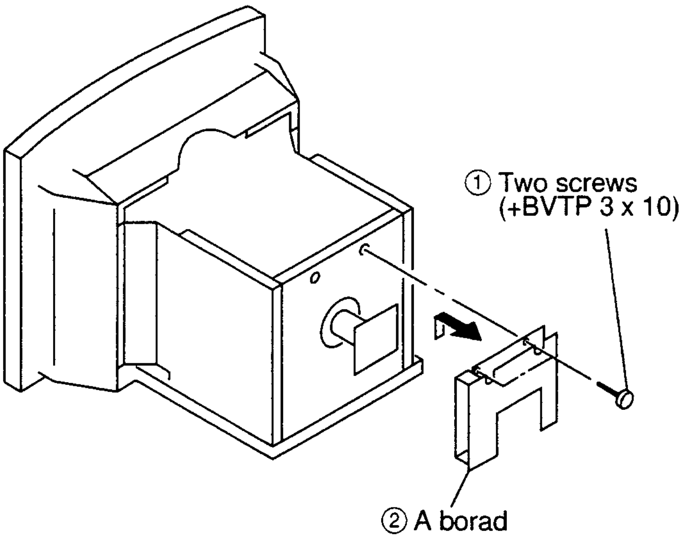

③ Two screws
(+ BVTP 3 x 10)
① Two screws
(+– BV tapping screw M4 x 6)
④ D board
B
Two hooks
A

② Open the D block in the direction of the arrowⒶ . and remove of the arrowⒷ .

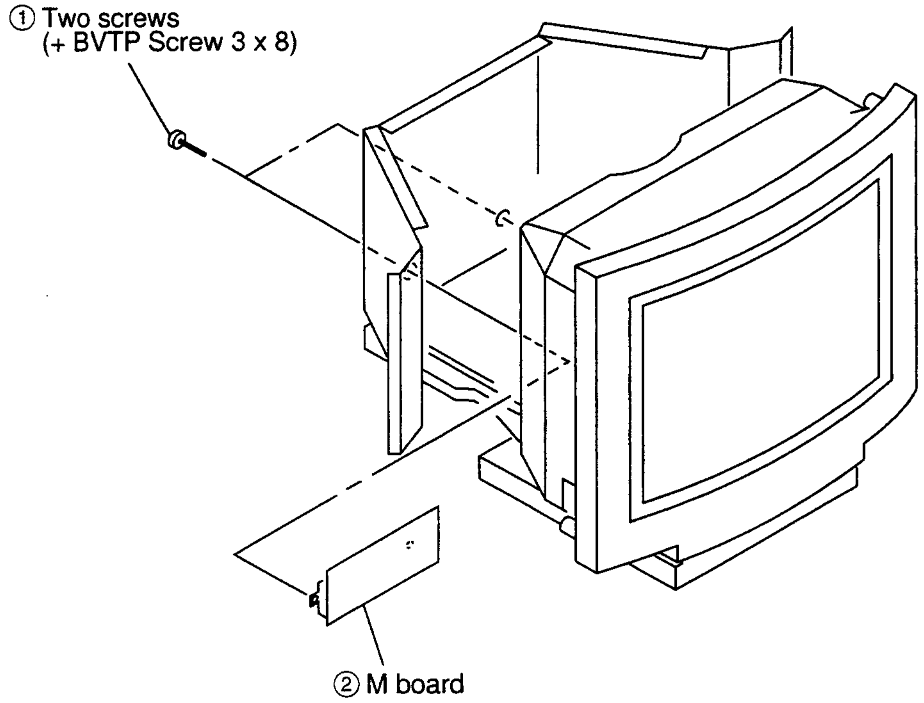
2-3. G BOARD REMOVAL


① Two screws
(+- BV tapping screw M4 x 6)
Ⓑ
Ⓐ
Two hooks
② Open the G block in the direction of the arrow Ⓐ . and remove of the arrow Ⓑ .
③ Two screws
(+BVTP 3 x 10)
④ Two screws
(+ P SW screw M3 x 10)
⑤ G shield
⑥ Two screws
(+BVTP 3 x 10)
⑧ G board
⑦ Two PCB holders

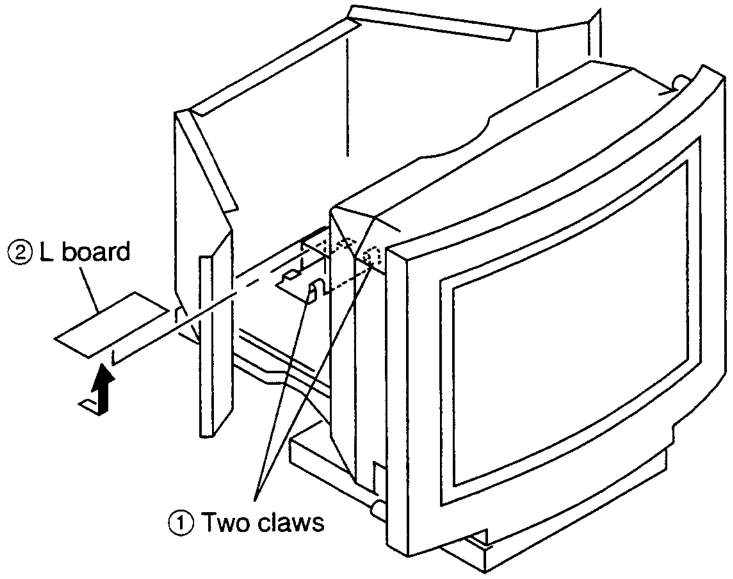
2-4. A BOARD REMOVAL


① Two screws
(+BVTP 3 x 10)
② A borad

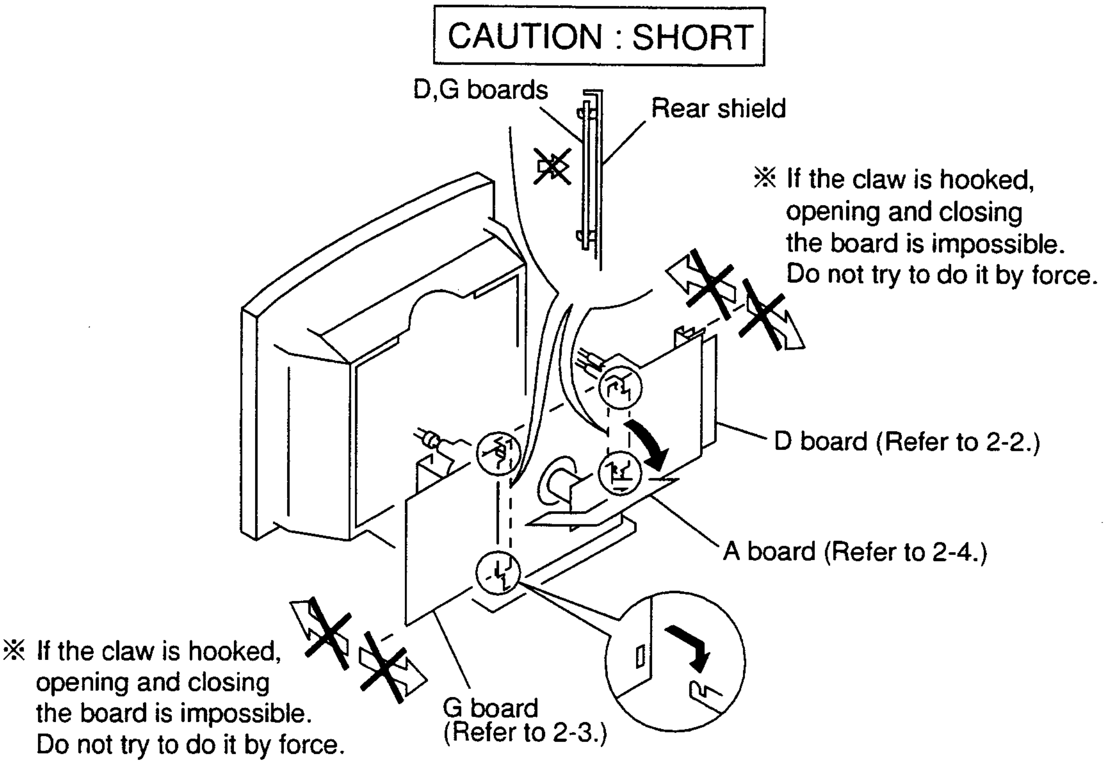
2-5. M BOARD REMOVAL


① Two screws
(+ BVTP Screw 3 x 8)
② M board

2-6. L BOARD REMOVAL


② L board
① Two claws

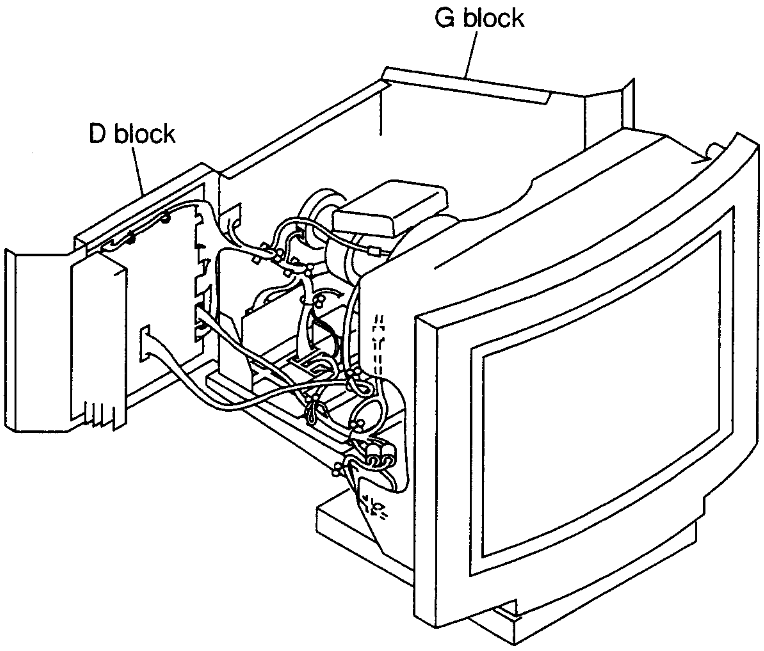
2-7. SERVICE POSITION


CAUTION : SHORT
D,G boards
Rear shield
※ If the claw is hooked, opening and closing the board is impossible. Do not try to do it by force.
D board (Refer to 2-2.)
A board (Refer to 2-4.)
※ If the claw is hooked, opening and closing the board is impossible. Do not try to do it by force.
G board (Refer to 2-3.)

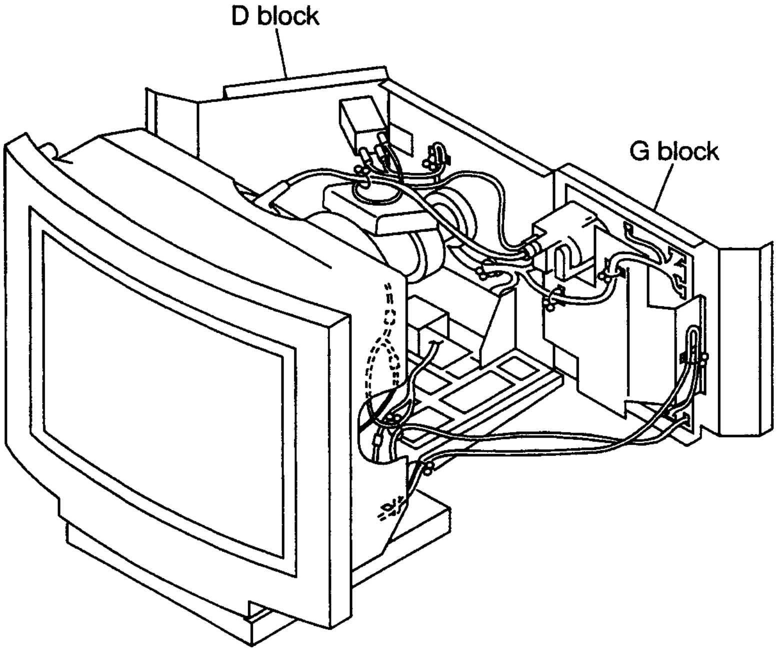
2-8. HARNESS LOCATION

※ The D and G blocks are not widely opened after the wires are properly arranged, as shown in the figure.

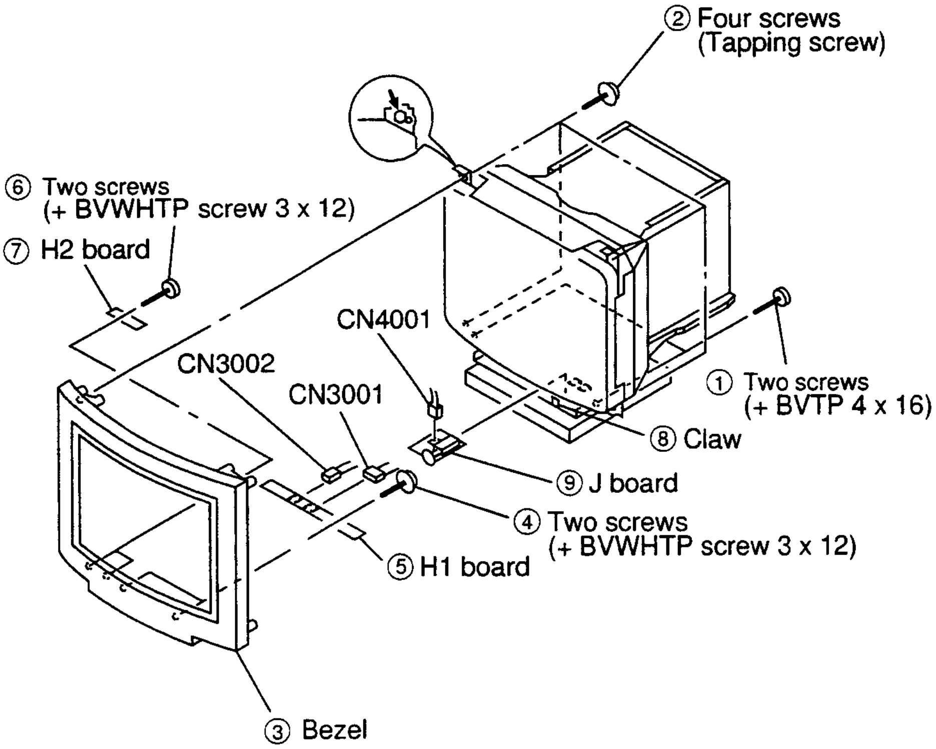
(1) D block side


G block
D block

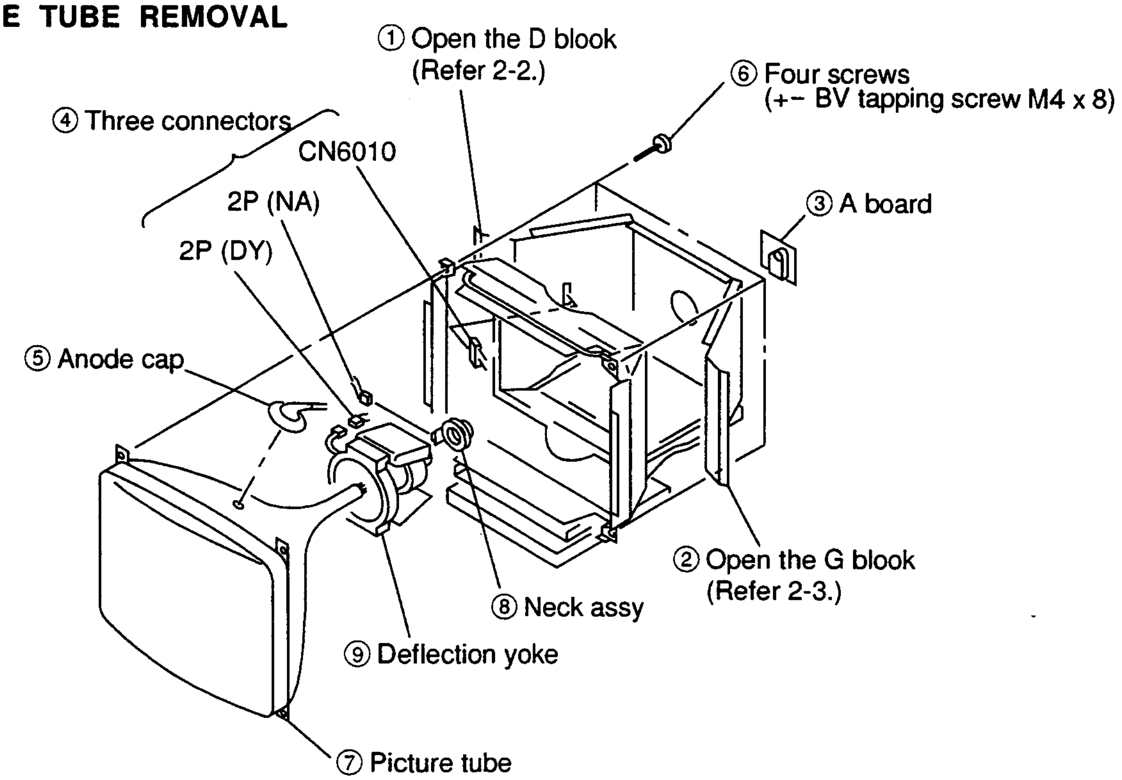
(2) G block side


D block
G block

2-9. H1, H2 AND J BOARDS REMOVAL

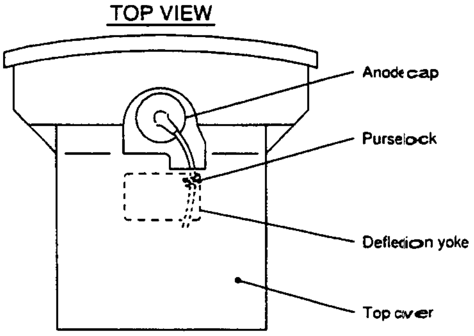

② Four screws
(Tapping screw)
⑥ Two screws
(+ BVWHTP screw 3 x 12)
⑦ H2 board
CN4001
CN3002
CN3001
① Two screws
(+ BVTP 4 x 16)
⑧ Claw
⑨ J board
④ Two screws
(+ BVWHTP screw 3 x 12)
⑤ H1 board
③ Bezel

2-10. PICTURE TUBE REMOVAL


① Open the D blook
(Refer 2-2.)
⑥ Four screws
(+− BV tapping screw M4 x 8)
④ Three connectors
CN6010
2P (NA)
2P (DY)
③ A board
⑤ Anode cap
② Open the G blook
(Refer 2-3.)
⑧ Neck assy
⑨ Deflection yoke
⑦ Picture tube

• INSTALLED POSITION OF THE ANODE-CAP

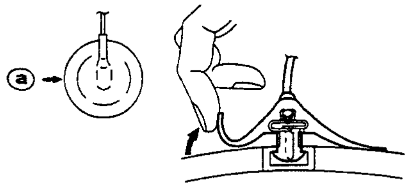
Install the anode cap as shown a figure.


TOP VIEW
Anode cap
Purselock
Deflection yoke
Top cover

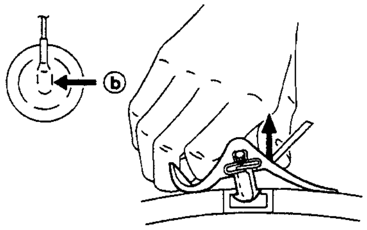
• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

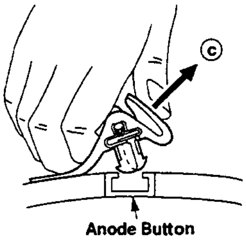
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



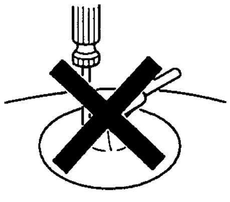
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

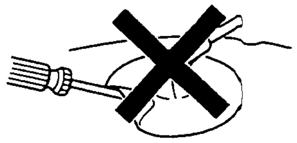

ⓒ
Anode Button

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with shartp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (◪)	
HV Regulator Circuit Check	GB board	IC4202 • Mounted GB board
HV Hold-Down Circuit Check	G board	D4220 • Mounted G board • Mounted GB board
Beam Current Protector#1 Circuit Check	G board	D4204,D4206,D4220, R4211,R4212,R4216, R4219 • Mounted G board
	GB board	IC4202 • Mounted GB board
Beam Current Protector#2 Circuit Check	G board	R4222, R4223 • Mounted G board • Mounted GB board
Voltage of 3rd winding of FBT	G board	T4202(FBT) • Mounted G board

Check Condition

Input voltage : 100~120 V AC
Input signal : White dots or Cross Hatch
Controls : BRT and CONT → Minimum
B+ voltage : 193~201 V DC

a) HV Regulator Circuit Check

1) Confirm that the voltage of the pin ⑪ of IC4202 on GB board is within the voltage range shown below.
   Standard: 9.00±0.10 V DC

b) HV Hold-Down Circuit Check

1) Using an external DC power supply, apply the voltage shown below between cathode of D4220 on G board and ground, and confirm that the HV Hold-Down circuit works. (TV Raster disappears)
   Check Condition: Less than $33.8^{+0.0}_{-0.1}$ V DC

c) Beam Current Protector#1 Circuit Check

1) Record the initial regulation value of ABL-SHUTDOWN and using a PC computer, input the "255" for maximum value of resistor.
2) Connect to the Constant Current Jig (A) between pin ⑪ of T4202 (FBT) on G board and ground, and confirm that the Beam Current Protector Circuit works. (TV Raster disappears)
   Check Condition: Less than 1.55 mA

d) Beam Current Protector#2 Circuit Check

Input the initial regulation value of ABL-SHUTDOWN that was recorded c)-1).

1) Shorted between pin ⑪ of IC4202 on GB board and ground.
2) Connect to the Constant Current Jig (A) between pin ⑪ of T4202 (FBT) on G board and ground, and confirm that the Beam Current Protector Circuit works. (TV Raster disappears)
   Check Condition: Less than 1.72 mA

e) Voltage of 3rd winding of FBT

1) Confirm that the voltage of the cathode of D4220 on G board is within the voltage range shown below.
   Satndard: More than 28.0 V DC

SECTION 4
ADJUSTMENTS

● Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
2. Adjust the contrast to the maximum.
3. Make the screen monogreen.

Note: Off the outputs from R ch and B ch of SG.

4. Adjust the brightness is easy to see with the G2 resistor.
5. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
6. Moving the DY forward, adjust so that an entire screen becomes monogreen.
7. Adjust the tilt of DY, and fix lightly with a clamp.

● Landing Fine Adjustment

1. Put the set inside the Helmholtz coil.
2. Input the single green signal and set the CONT control to MAX.

Note: Set to Σ Ik=300 μA with the signal green signal, and after aging for about 30 minutes, adjust so that it is exactly this value.

3. Before making any adjustment, confirm that respective preadjustment values of the registers listed below have been entered correctly.

LCC K TEMP	100	LCC R TOL	128
LCC K EW C	105	LCC SW7	7
LCC K NS C	0	LCC TEMP	151
LCC K NS	160	LCC VX	#
LCC K NS FOR ROT	64	LCC VY	#
LCC K ROT FOR NS	46	LCC K VY NS	0
LCC K POL	255	LCC P TOL	128
LCC WO	128		

#=Input values in time adjustments

Also, confirm that "LCC NS=LCC LT=LCC LB=LCC RB=LCC RT=128"

4. Send the "LCC READ" command of the ECS.
If the ECS command cannot be used, execute the status reading and VX, VY and V TEMP values may be entered to "LCC VX", "LCC VY" and "LCC TEMP" respectively.
5. Execute the service saving.
6. Demagnetize the metal part of the chassis with the hand degausser and coil degausser, and the CRT surface with the hand degausser.
Input AC 230V to AC IN, turn on and off the power to perform auto degaussing. (Perform auto degaussing by setting "MON CON REG 2"=152. Return to the original value after use.)
Demagnetize the CRT surface with the hand degausser again.

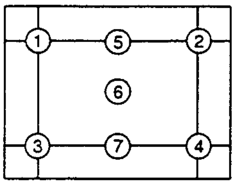
Note: The power must be turned off during chassis degaussing.

7. Attach the wobbling coil to the designated part of the CRT neck.
8. Attach the sensor of the landing adjustment unit on the CRT surface.
9. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker.

Note:

(1) Adjust in s non-magnetic field. BV=35uT.
(2) If adjusting in a magnetic fields, add the shift from the non-magnetic field in your estimation.

<Specification>



Adjust the green of corners 1 to 4, and center 6 to ±5 μm, and red and blue to within ±7 μm of green, and the difference between red and blue to within ±10 μm.
Adjust the green of 5 and 7 to within ±10 μm, and red and blue to within ±7 μm of green, and the difference between red and blue to within ±10 μm.

(Set each corner to 1st frame of the crosshatch.)

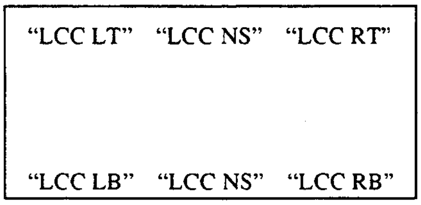
10. For the up/down and left/right swing, swing the DY and insert a wedge so that the up and down pins are equal at the top and bottom and the horizontal trapezoid is equal at the left and right. Insert the wedge firmly so that the DY does not shake.
11. Check the landing of each corner, and if they do not satisfy the specification, paste a Disk-Mg onto the funnel and adjust.

Note:

(1) Do not paste more than 2 magnets to one corner.
(2) Paste within 80 to 100 mm from the DY on the diagonal line of the magnet.
(3) If using the magnet, be sure to demagnetize with the hand degausser and check.
(4) If the specification cannot be satisfied though the adjustment of 11 was made, the following adjustment may be made.
   a) Adjust the "LCC xx" register that corresponds to the part to be adjusted. (See the following figure)

Note : "LCC NS" =108~148
except for "LCC NS"=114~142

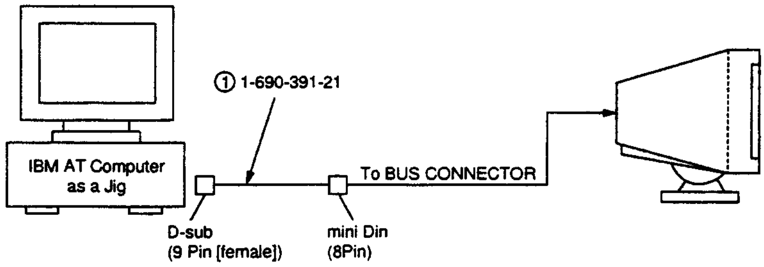
   b) Execute the service saving.



(5) If performing a manual degaussing after adjustment of "LCC xx", set "LCC xx" to 128 (of "LCC SW" to 0).
(After degaussing, return the adjustment value to original value.)

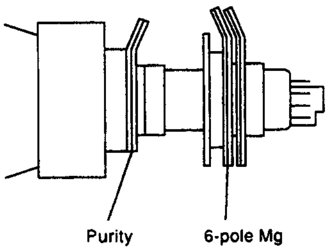
12. Remove the sensor and wobbling coil.
13. Switch the signal to R.G.B., and check that each color is pure.
14. Check that the DY is not tilting, and fix the purity Mg with a white pen.

Run the service software and then follow the instruction.


① 1-690-391-21
IBM AT Computer as a Jig
To BUS CONNECTOR
D-sub
(9 Pin [female])
mini Din
(8Pin)

● Convergence Rough Adjustment

(1) Receive an image of the white crosshatch signals (white lines on black).
(2) Place the protrusions of the 6-fold poles magnet attached to the CRT neck upon each other.
(3) Make rough adjustment of the H direction convergence by using H. STAT VR (left side of the video block).
(4) Make a rough adjustment of the V direction convergence by using "V. STAT".


Purity
6-pole Mg

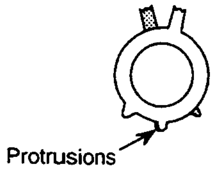
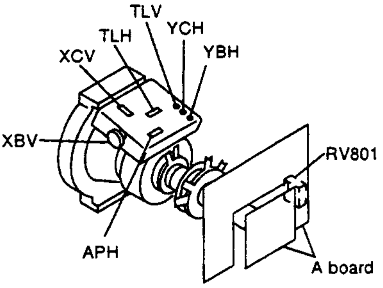
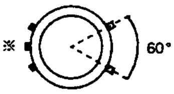

Protrusions

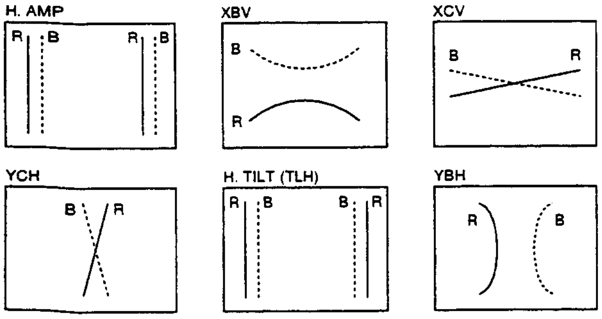
Fig. 1


TLV
TLH
YCH
XCV
YBH
XBV
RV801
APH
A board

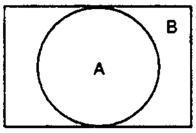


※ Set so that the protruding parts of the 2 magnet rings agree with each other.

Fig. 3


H. AMP
R
B
R
B
XBV
B
R
XCV
B
R
YCH
B
R
H. TILT (TLH)
R
B
B
R
YBH
R
B

● Convergence Specification

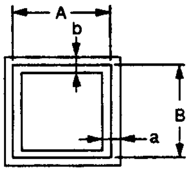


MODE	7	2,3,4,5,6	1,8,9
A	0.24 mm	0.28 mm	0.28 mm
B	0.32 mm	0.36 mm	0.40 mm

● White Balance Adjustment Specification

(1) 9300K
x = 0.283 ± 0.008
y = 0.298 ± 0.008
(2) 6500K
x = 0.313 ± 0.008
y = 0.329 ± 0.008
(3) 5000K
x = 0.346 ± 0.008
y = 0.359 ± 0.008

● Vertical and Horizontal Position and Size Specification

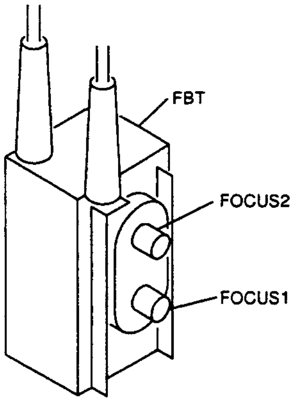


MODE	7	other mode
a ≦	3.0mm	4.4mm
b ≦	3.8mm	4.4mm

MODE	1,3	2	4,5,8,9	6,7
A	395mm	370mm	474mm	474mm
B	296mm	296mm	266mm	296mm

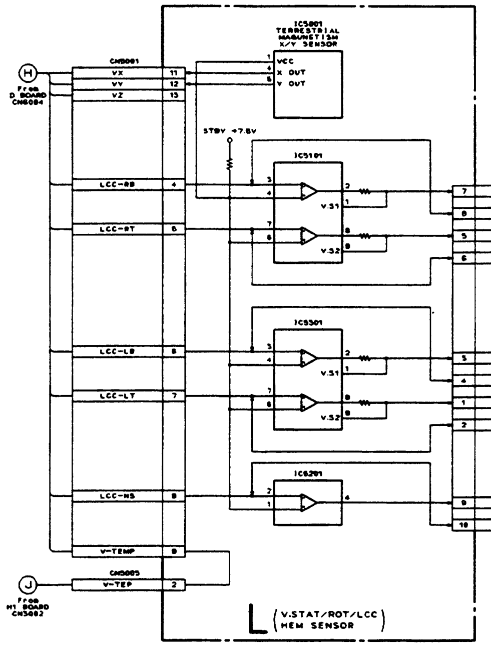
● Focus adjustment

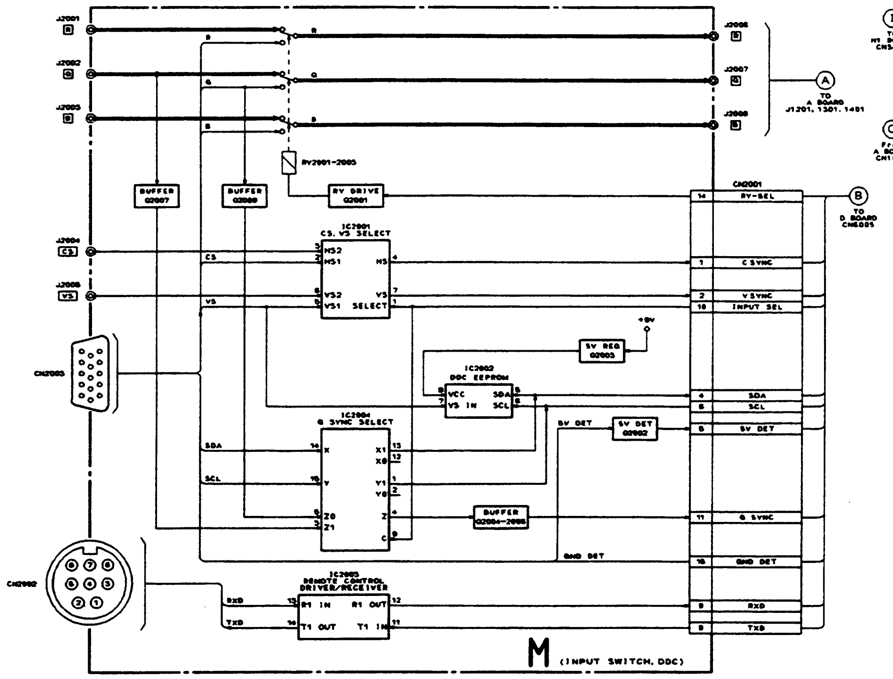
Adjust the focus volume 1 and 2 for the optimun focus.

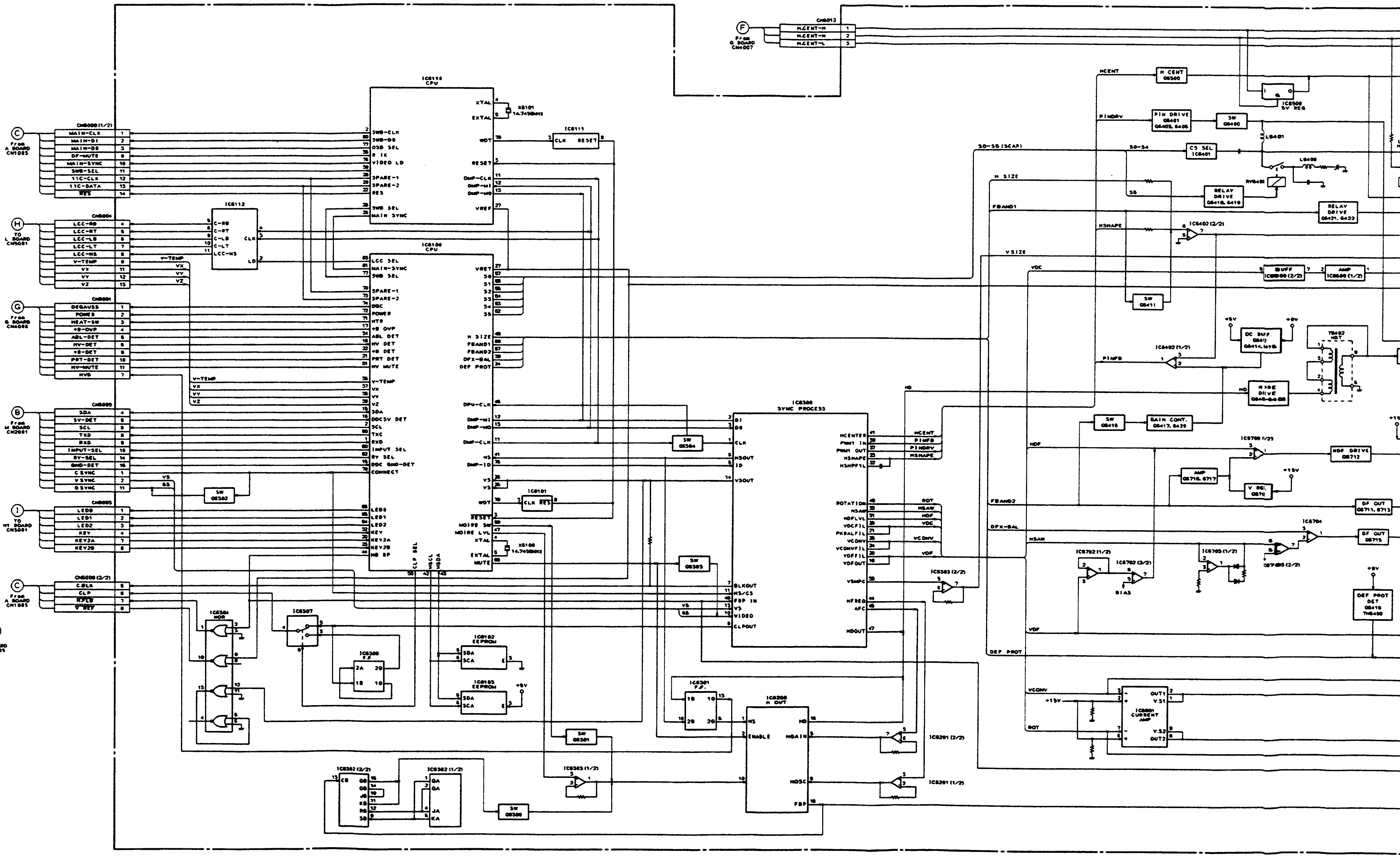

FBT
FOCUS2
FOCUS1

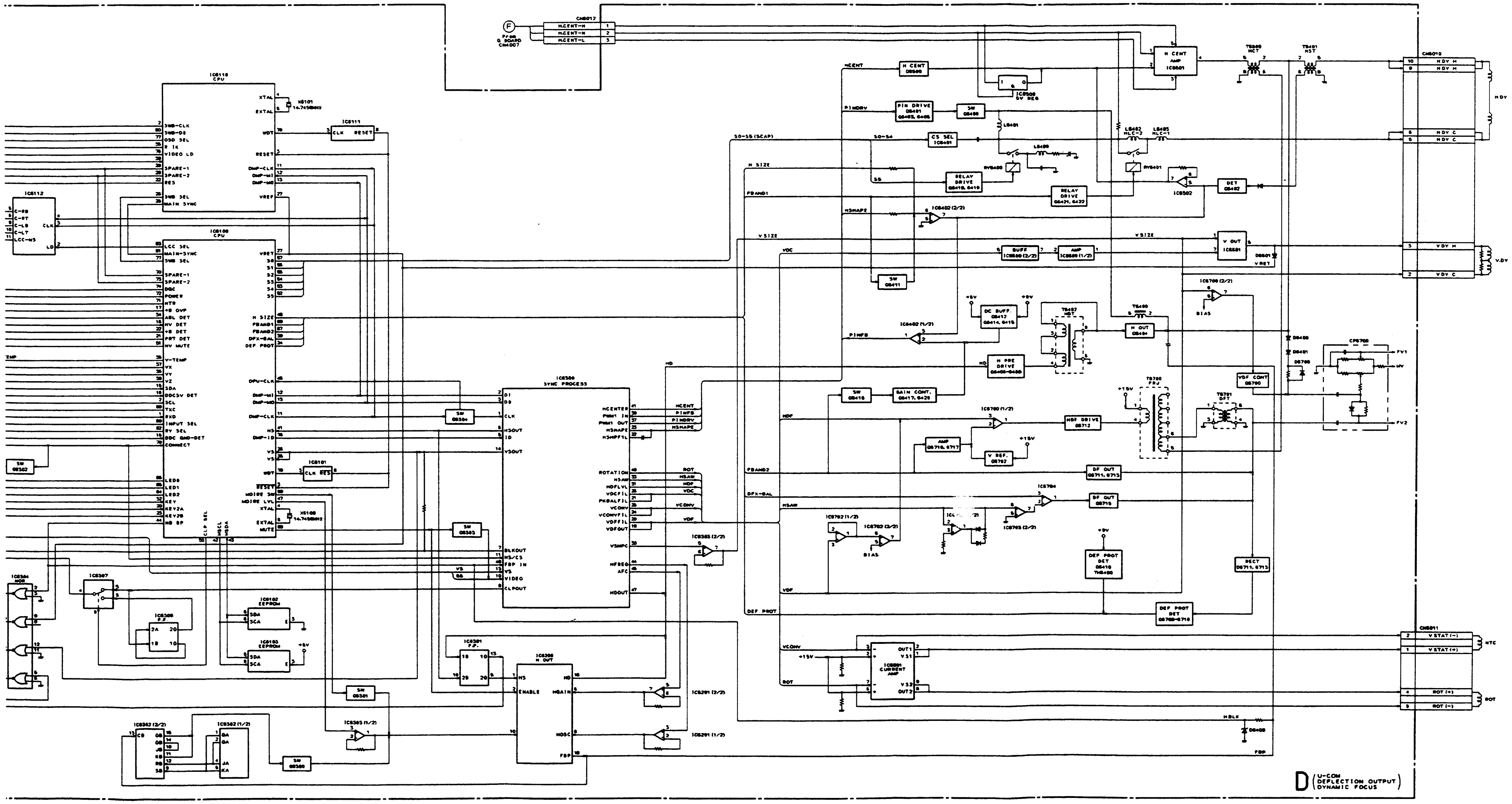
SECTION 5
DIAGRAMS

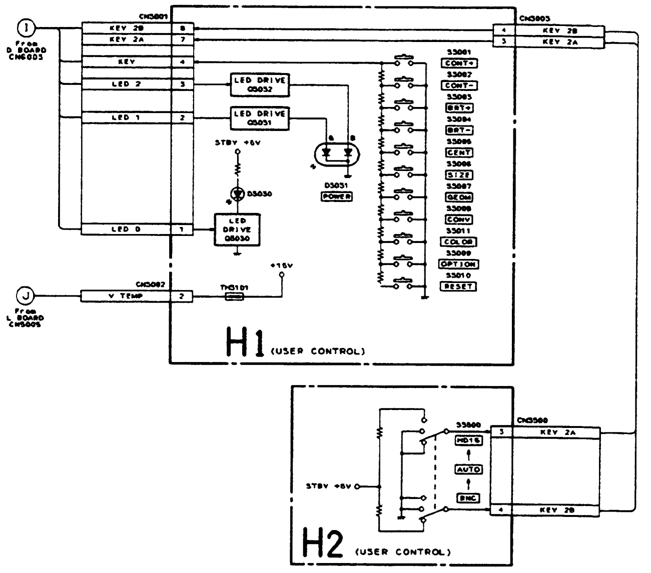
5-1. BLOCK DIAGRAMS

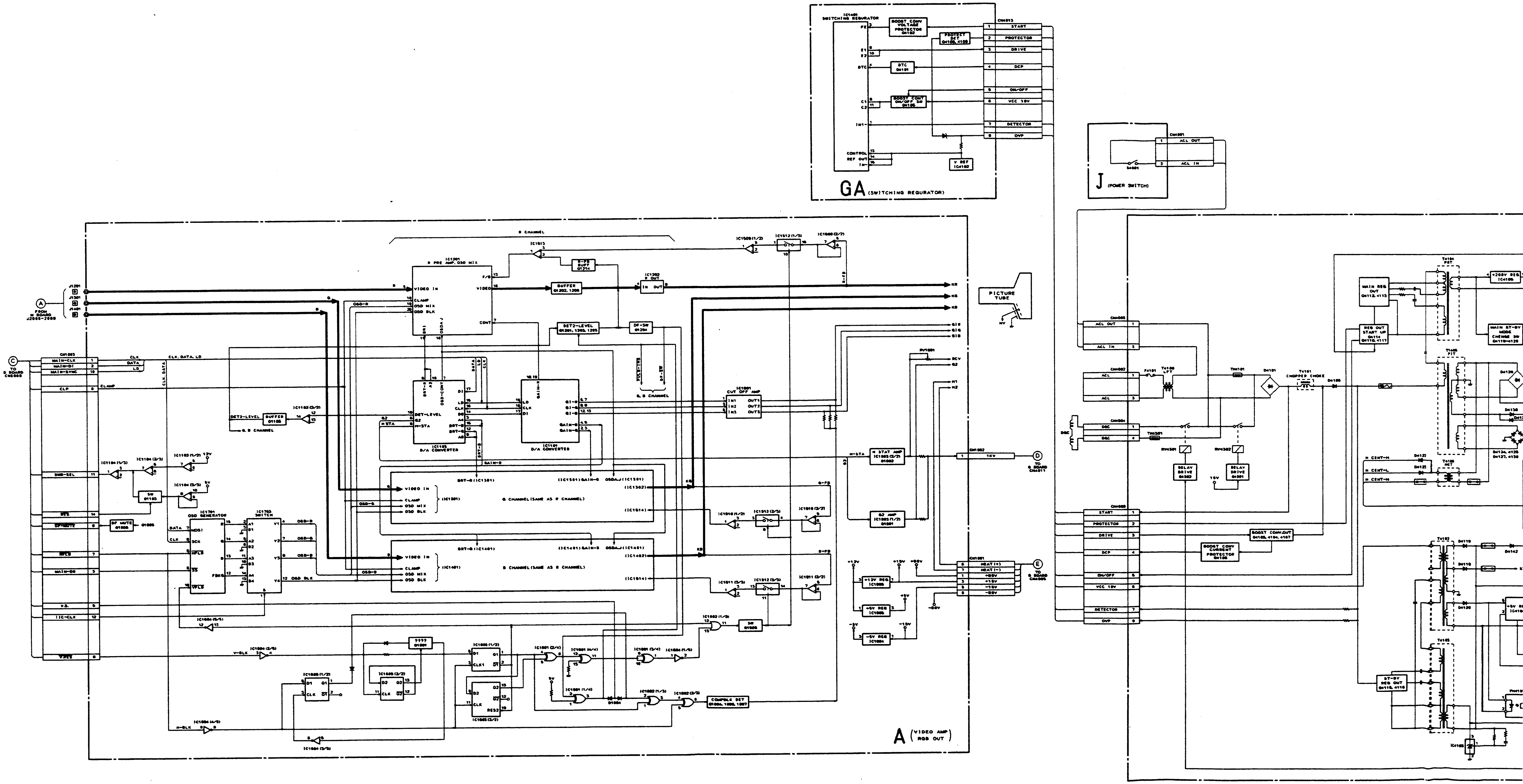

IC5001 TERRESTRIAL MAGNETISM X/Y SENSOR
IC5101
IC5301
IC5201
CN5001
CN5002
CN5003
LCC-RB
LCC-RT
LCC-LB
LCC-LT
LCC-HS
V-TEMP
STBY +7.5V
L (V.STAT/ROT/LCC HEM SENSOR)

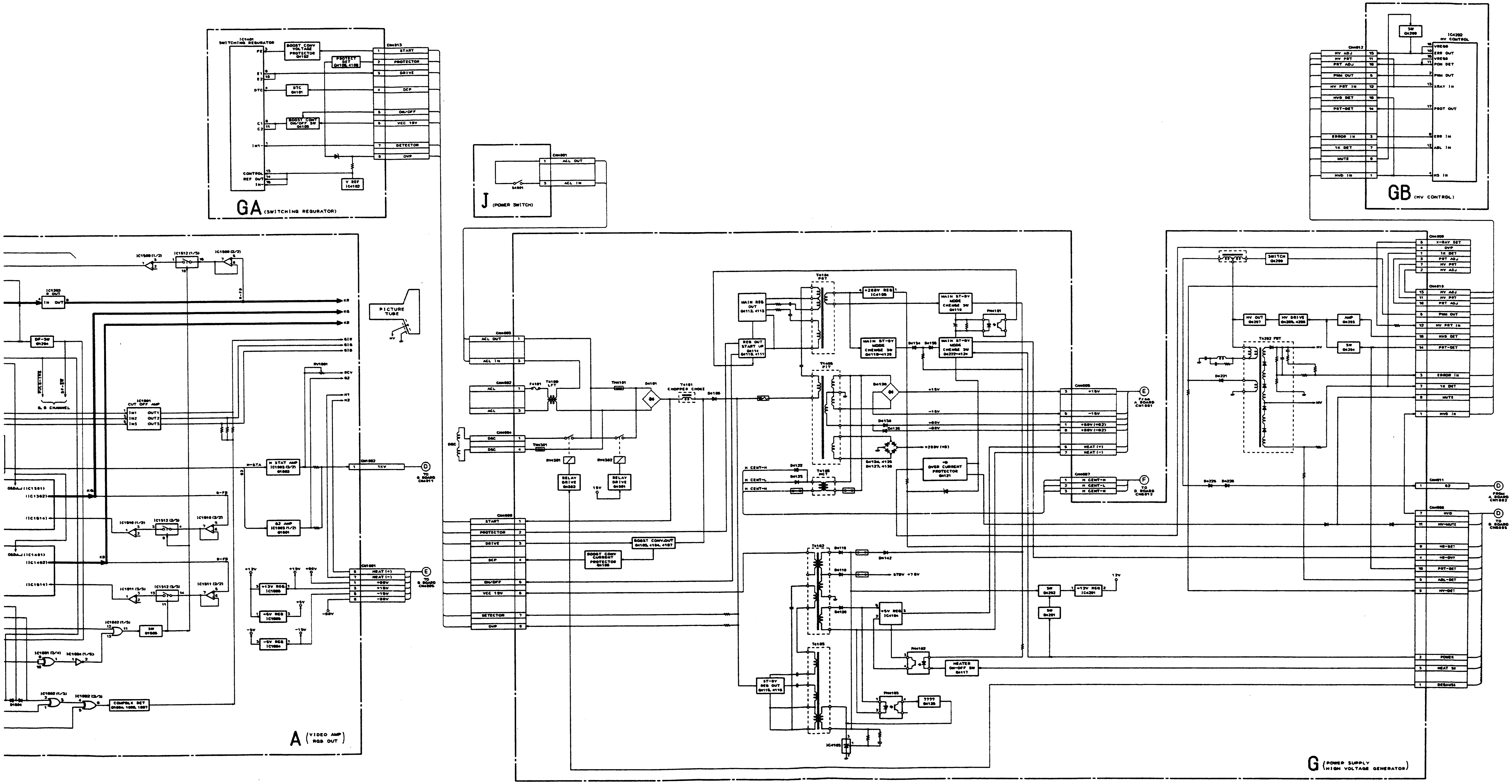

J2001
J2002
J2003
J2004
J2005
J2006
J2007
J2008
CN2001
CN2003
CN2002
IC2001 CS, VS SELECT
IC2002 DDC EEPROM
IC2004 G SYNC SELECT
IC2003 REMOTE CONTROL DRIVER/RECEIVER
BUFFER
RV DRIVE
5V REG
5V DET
TO A BOARD J1201, 1301, 1401
TO D BOARD CN6005
M (INPUT SWITCH, DDC)


IC6110 CPU
IC6100 CPU
IC6112
IC6111
IC6300 SYNC PROCESS
IC6304
IC6307
IC6306
IC6102 EEPROM
IC6103 EEPROM
IC6301
IC6302
IC6305
IC6308 H OUT
IC6201
CN6000
CN6004
CN6001
CN6005
CN6003
CN6012
X6101 14.7456MHz
RESET
IC6801 CURRENT AMP
IC6704
IC6702
IC6703
RELAY DRIVE
H CENT
PIN DRIVE
CS SEL
GAIN CONT.
BIAS
DEF PROT

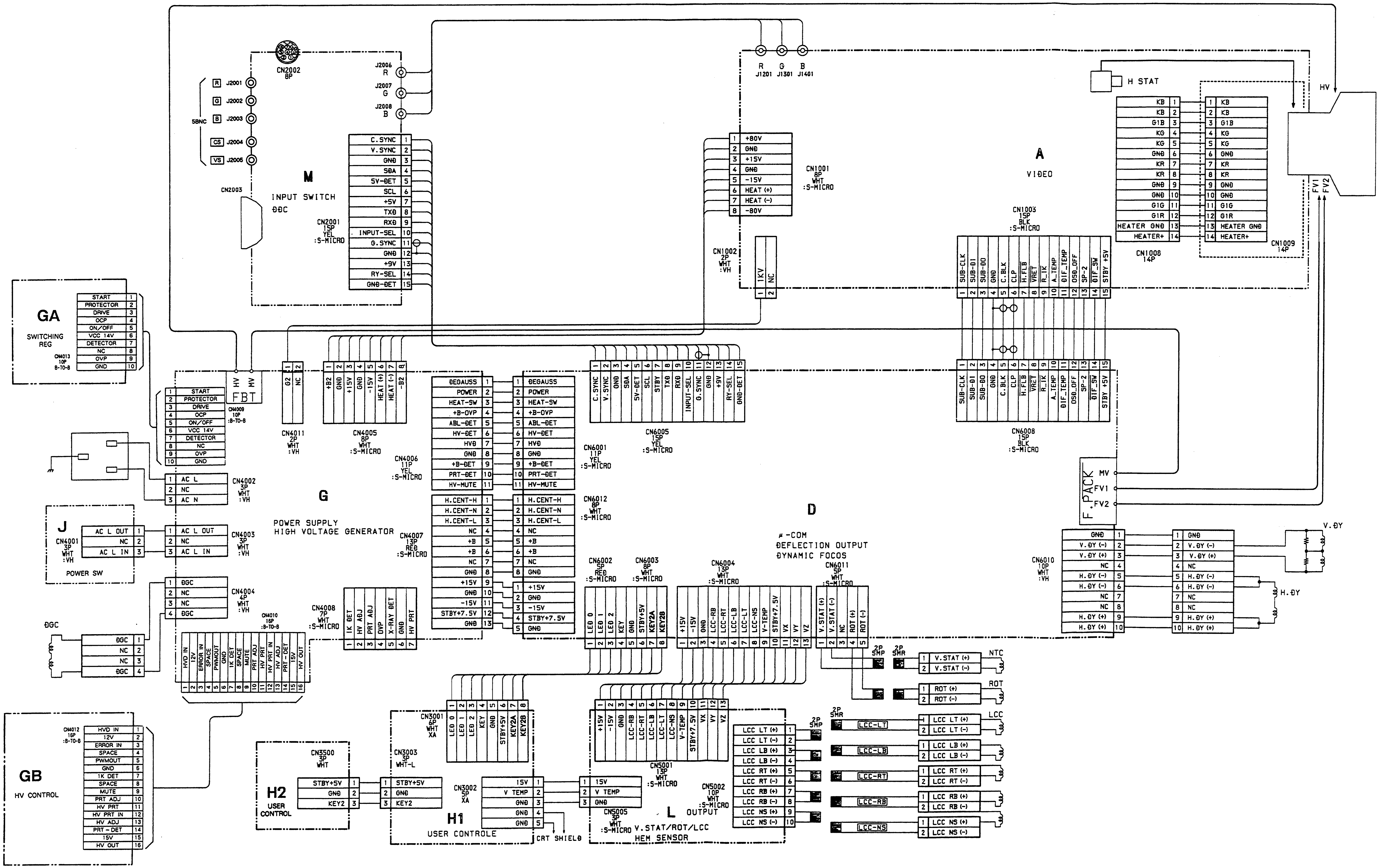

F
From G BOARD CN4007
CN6012
H.CENT-H
H.CENT-N
H.CENT-L
IC6110 CPU
XTAL
EXTAL
X6101 14.7456MHz
SWB-CLK
SWB-DB
OSD SEL
R 1K
VIDEO LD
SPARE-1
SPARE-2
RES
SWB SEL
MAIN SYNC
WDT
RESET
DMP-CLK
DMP-MI
DMP-MO
VREF
IC6111
CLK RESET
IC6112
C-RB
C-RT
C-LB
C-LT
LCC-HS
CLK
LD
IC6100 CPU
LCC SEL
MAIN-SYNC
SWB SEL
DGC
POWER
HTR
+B OVP
ABL DET
HV DET
+B DET
PRT DET
HV MUTE
V-TEMP
VX
VY
VZ
SDA
DDC5V DET
SCL
TXC
RXD
INPUT SEL
RY SEL
DDC GND-DET
CONNECT
LED0
LED1
LED2
KEY
KEY2A
KEY2B
HB BP
CLP SEL
MSCL
MSDA
S0
S1
S2
S3
S4
S5
H SIZE
FBAND1
FBAND2
DFX-BAL
DEF PROT
DPU-CLK
HS
DMP-ID
VS
MOIRE SW
MOIRE LVL
MUTE
X6100 14.7456MHz
IC6101
CLK RES
SW Q6302
SW Q6304
SW Q6305
SW Q6301
SW Q6300
IC6500 SYNC PROCESS
DI
DO
CLK
HSOUT
ID
VSOUT
BLKOUT
HS/CS
FBP IN
VS
VIDEO
CLPOUT
HCENTER
PWM1 IN
PWM1 OUT
HSHAPE
HSHPF1L
ROTATION
HSAW
HDFLVL
VDCFIL
PKBALFIL
VCONV
VCONVFIL
VDFFIL
VDFOUT
VSMPC
HFREQ
AFC
HDOUT
HCENT
PINFB
PINDRV
ROT
HDF
VDC
VDF
IC6505 (2/2)
IC6505 (1/2)
IC6504 NOR
IC6507
IC6508 F.F.
IC6102 EEPROM
IC6103 EEPROM
SDA
SCA
+5V
IC6501 F.F.
IC6200 H OUT
ENABLE
HGAIN
HOSC
FBP
IC6201 (2/2)
IC6201 (1/2)
IC6502 (2/2)
IC6502 (1/2)
S0-S5 (SCAP)
S0-S4
S5
H SIZE
V SIZE
HSHAPE
H CENT Q6500
PIN DRIVE Q6401 Q6403, 6405
SW Q6400
CS SEL IC6401
RELAY DRIVE Q6418, 6419
RELAY DRIVE Q6421, 6422
RY6400
RY6401
LB401
LB486
LB402 HLC-2
LB405 HLC-1
IC6508 5V REG
H CENT AMP IC6601
IC6602
DET Q6402
IC6402 (2/2)
IC6402 (1/2)
SW Q6411
BUFF IC6600 (2/2)
AMP IC6600 (1/2)
V OUT IC6601
D6601
VRET
IC6700 (2/2)
BIAS
+5V
+9V
DC BUFF. Q6412 Q6414, 6415
T6402 HDT
T6400
H OUT Q6404
HD
H PRE DRIVE Q6406-6408
SW Q6416
GAIN CONT. Q6417, 6420
T6500 HCT
T6401 HST
CN6010
HDY H
HDY C
HDY
VDY H
VDY C
V.DY
D6400
D6401
D6700
CP6700
FV1
HV
FV2
VDF CONT Q6700
T6700 FRJ
T6701 DFT
+15V
IC6700 (1/2)
HDF DRIVE Q6712
AMP Q6716, 6717
V REF. Q6702
DF OUT Q6711, 6713
DF OUT Q6719
IC6704
IC6703 (2/2)
IC6702 (1/2)
IC6702 (2/2)
DEF PROT DET Q6410 TH6400
RECT Q6711, 6713
DEF PROT DET Q6708-6710
VCONV
IC6801 CURRENT AMP
OUT1
VS1
VS2
OUT2
CN6011
V STAT (-)
V STAT (+)
NTC
ROT (+)
ROT (-)
HBLK
D6408
FBP
D (U-COM DEFLECTION OUTPUT DYNAMIC FOCUS)


I
From D BOARD CN6003
CN5001
KEY 2B
KEY 2A
KEY
LED 2
LED 1
LED 0
LED DRIVE Q5032
LED DRIVE Q5031
STBY +5V
D5030
LED DRIVE Q5030
D5031
POWER
S5001
CONT+
S5002
CONT-
S5003
BRT+
S5004
BRT-
S5005
CENT
S5006
SIZE
S5007
GEOM
S5008
CONV
S5011
COLOR
S5009
OPTION
S5010
RESET
CN5003
KEY 2B
KEY 2A
J
From L BOARD CN5005
CN5002
V TEMP
TH5101
+15V
H1 (USER CONTROL)
STBY +5V
S5500
HD15
AUTO
BNC
CN5500
KEY 2A
KEY 2B
H2 (USER CONTROL)

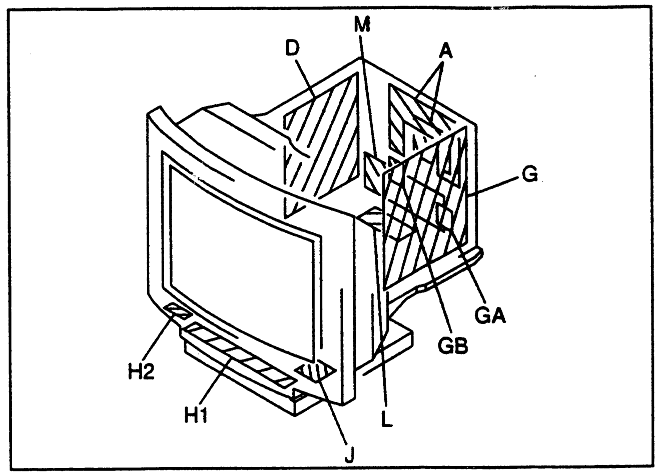

IC1401
SWITCHING REGURATOR
BOOST CONV VOLTAGE PROTECTOR Q4102
PROTECT DET Q4108, 4109
DTC Q4101
BOOST CONT ON/OFF SW Q4105
V REF IC4102
CN4013
START
PROTECTOR
DRIVE
DCP
ON/OFF
VCC 18V
DETECTOR
OVP
GA (SWITCHING REGURATOR)
CN4801
ACL OUT
ACL IN
S4801
J (POWER SWITCH)
R CHANNEL
IC1201
R PRE AMP, OSD MIX
VIDEO IN
CLAMP
OSD MIX
OSD BLK
A
FROM
M BOARD
J2085-2088
C
TO
D BOARD
CN668
CN1003
MAIN-CLK
MAIN-DI
MAIN-SYNC
CLP
SWB-SEL
CLK, DATA, LD
DET2-LEVEL
BUFFER Q1106
G, B CHANNEL
IC1103
D/A CONVERTER
IC1101
D/A CONVERTER
IC1701
OSD GENERATOR
IC1703
SWITCH
SW Q1105
DF MUTE Q1808
G CHANNEL(SAME AS R CHANNEL)
B CHANNEL(SAME AS R CHANNEL)
BUFFER Q1202, 1203
IC1202
IN OUT
DET2-LEVEL Q1204, 1205, 1206
DF-SW Q1206
PICTURE TUBE
HV
IC1601
CUT OFF AMP
H STAT AMP
G2 AMP
CN1002
TO
D BOARD
CN1601
HEAT(+)
HEAT(-)
+80V
+15V
-15V
-80V
+12V REG IC1605
+5V REG IC1606
-5V REG IC1604
TO
B BOARD
CN695
COMPOSE DET Q1804, 1806, 1807
V-BLK
H-BLK
A (VIDEO AMP RGB OUT)
CN6005
ACL OUT
ACL IN
CN6002
ACL
CN6004
DGC
CN6006
START
PROTECTOR
DRIVE
DCP
ON/OFF
VCC 18V
DETECTOR
OVP
F6101
LFT
TH6101
D6101
T6101
CHOPPER CHOKE
RY6301
RY6302
RELAY DRIVE Q6302
RELAY DRIVE Q6301
BOOST CONV.OUT Q4105, 4106, 4107
BOOST CONV CURRENT PROTECTOR Q4106
MAIN REG OUT Q4112, 4113
REG OUT START UP Q4114 Q4110, 4111
+200V REG IC4105
MAIN ST-BY MODE CHENGE SW
T4104 FBT
T4105 PIT
T4106 MCT
ST-BY REG OUT Q4115, 4116
H CENT-H
H CENT-L
IC4103


GA (SWITCHING REGURATOR)
IC4101 SWITCHING REGURATOR
CN4013
START
PROTECTOR
DRIVE
DCP
ON/OFF
VCC 15V
DETECTOR
OVP
J (POWER SWITCH)
CN4001
ACL OUT
ACL IN
S4001
GB (HV CONTROL)
IC4260 HV CONTROL
CN4012
HV ADJ
HV PRT
PRT ADJ
PWM OUT
HV PRT IN
HVD DET
PRT-DET
ERROR IN
1K DET
MUTE
HVD IN
PICTURE TUBE
A (VIDEO AMP RGB OUT)
IC1801 CUT OFF AMP
G2 AMP
H STAT AMP
+12V REG
+5V REG
-5V REG
COMPBLK DET
TO D BOARD
G (POWER SUPPLY HIGH VOLTAGE GENERATOR)
T4101 FBT
T4105 PIT
T4102
T4103
MAIN REG OUT
REG OUT START UP
MAIN ST-BY MODE CHENGE SW
+200V REG
+5V REG
ST-BY REG OUT
OVER CURRENT PROTECTOR
HEATER ON-OFF SW
T4202 FBT
HV OUT
HV DRIVE
AMP
SWITCH
+12V REG
FROM A BOARD
TO D BOARD
E
F
D
POWER
HEAT SW
DEGAUSS
STBY +7.5V
+15V
-15V
+80V
+200V
HEAT (+)
HEAT (-)
H CENT-H
H CENT-L
DGC
RELAY DRIVE
CHOPPER CHOKE
LFT

5-2. FRAME SCHEMATIC DIAGRAM


M
INPUT SWITCH
DDC
CN2001 15P YEL :S-MICRO
CN2002 8P
CN2003
J2001 R
J2002 G
J2003 B
J2004 CS
J2005 VS
SBNC
J2006 R
J2007 G
J2008 B
C.SYNC
V.SYNC
GND
SDA
5V-DET
SCL
+5V
TXD
RXD
INPUT-SEL
G.SYNC
+9V
RY-SEL
GND-DET
A
VIDEO
R G B
J1201 J1301 J1401
H STAT
HV
FV1
FV2
CN1001 8P WHT :S-MICRO
+80V
+15V
-15V
HEAT (+)
HEAT (-)
-80V
CN1002 2P WHT :VH
1KV
NC
CN1003 15P BLK :S-MICRO
SUB-CLK
SUB-DI
SUB-DO
C.BLK
CLP
H.FLB
VREF
R_IK
A_TEMP
DIF_TEMP
OSD_OFF
SP-2
DIF_SW
STBY +5V
CN1008 14P
CN1009 14P
KB
G1B
KG
KR
G1G
G1R
HEATER GND
HEATER+
GA
SWITCHING REG
CN4013 10P B-TO-B
START
PROTECTOR
DRIVE
OCP
ON/OFF
VCC 14V
DETECTOR
NC
OVP
FBT
HV
MV
CN4009 10P :B-TO-B
CN4011 2P WHT :VH
G2
CN4005 8P WHT :S-MICRO
+B2
HEAT (+)
HEAT (-)
-B2
CN4006 11P YEL :S-MICRO
DEGAUSS
POWER
HEAT-SW
+B-OVP
ABL-DET
HV-DET
HVD
+B-DET
PRT-DET
HV-MUTE
CN4007 13P RED :S-MICRO
H.CENT-H
H.CENT-N
H.CENT-L
+B
STBY+7.5V
CN6001 11P YEL :S-MICRO
CN6005 15P YEL :S-MICRO
CN6008 15P BLK :S-MICRO
CN6012 8P WHT :S-MICRO
G
POWER SUPPLY
HIGH VOLTAGE GENERATOR
CN4002 3P WHT :VH
AC L
AC N
J
CN4001 3P WHT :VH
AC L OUT
AC L IN
POWER SW
CN4003 3P WHT :VH
CN4004 4P WHT :VH
DGC
CN4010 16P :B-TO-B
CN4008 7P WHT :S-MICRO
1K DET
HV ADJ
PRT ADJ
OVP
X-RAY DET
HV PRT
GB
HV CONTROL
CN4012 16P :B-TO-B
HVD IN
12V
ERROR IN
SPACE
PWMOUT
1K DET
MUTE
PRT ADJ
HV PRT
HV PRT IN
HV ADJ
PRT-DET
15V
HV OUT
D
μ-COM
DEFLECTION OUTPUT
DYNAMIC FOCUS
CN6002 5P RED :S-MICRO
CN6003 8P WHT :S-MICRO
CN6004 13P WHT :S-MICRO
CN6011 5P WHT :S-MICRO
LED 0
LED 1
LED 2
KEY
STBY+5V
KEY2A
KEY2B
LCC-RB
LCC-RT
LCC-LB
LCC-LT
LCC-NS
V-TEMP
VX
VY
VZ
V.STAT (+)
V.STAT (-)
ROT (+)
ROT (-)
F.PACK
MV
FV1
FV2
CN6010 10P WHT :VH
V.DY (-)
V.DY (+)
H.DY (-)
H.DY (+)
V.DY
H.DY
2P SMP
2P SMR
NTC
ROT
LCC
LCC LT (+)
LCC LT (-)
LCC LB (+)
LCC LB (-)
LCC RT (+)
LCC RT (-)
LCC RB (+)
LCC RB (-)
LCC NS (+)
LCC NS (-)
LCC-LT
LCC-LB
LCC-RT
LCC-RB
LCC-NS
H2
USER CONTROL
CN3500 3P WHT
STBY+5V
KEY2
H1
USER CONTROLE
CN3001 6P WHT XA
CN3003 3P WHT-L
CN3002 5P XA
15V
V TEMP
CRT SHIELD
L
OUTPUT
V.STAT/ROT/LCC
HEM SENSOR
CN5001 13P WHT :S-MICRO
CN5002 10P WHT :S-MICRO
CN5005 3P WHT :S-MICRO

5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 V or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- -▭- : nonflammable resistor.
- -∿- : fusible resistor.
- △ : internal component.
- ▭ : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth-ground.
- ⏚ : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
- ━━━ : B + bus.
- ━ ━ ━ : B – bus.
- When replacing components identified by ◪ , make the necessary adjustments indicated. (See page 20)
- When replacing the part in below table, be sure to perfome the related adjustment.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

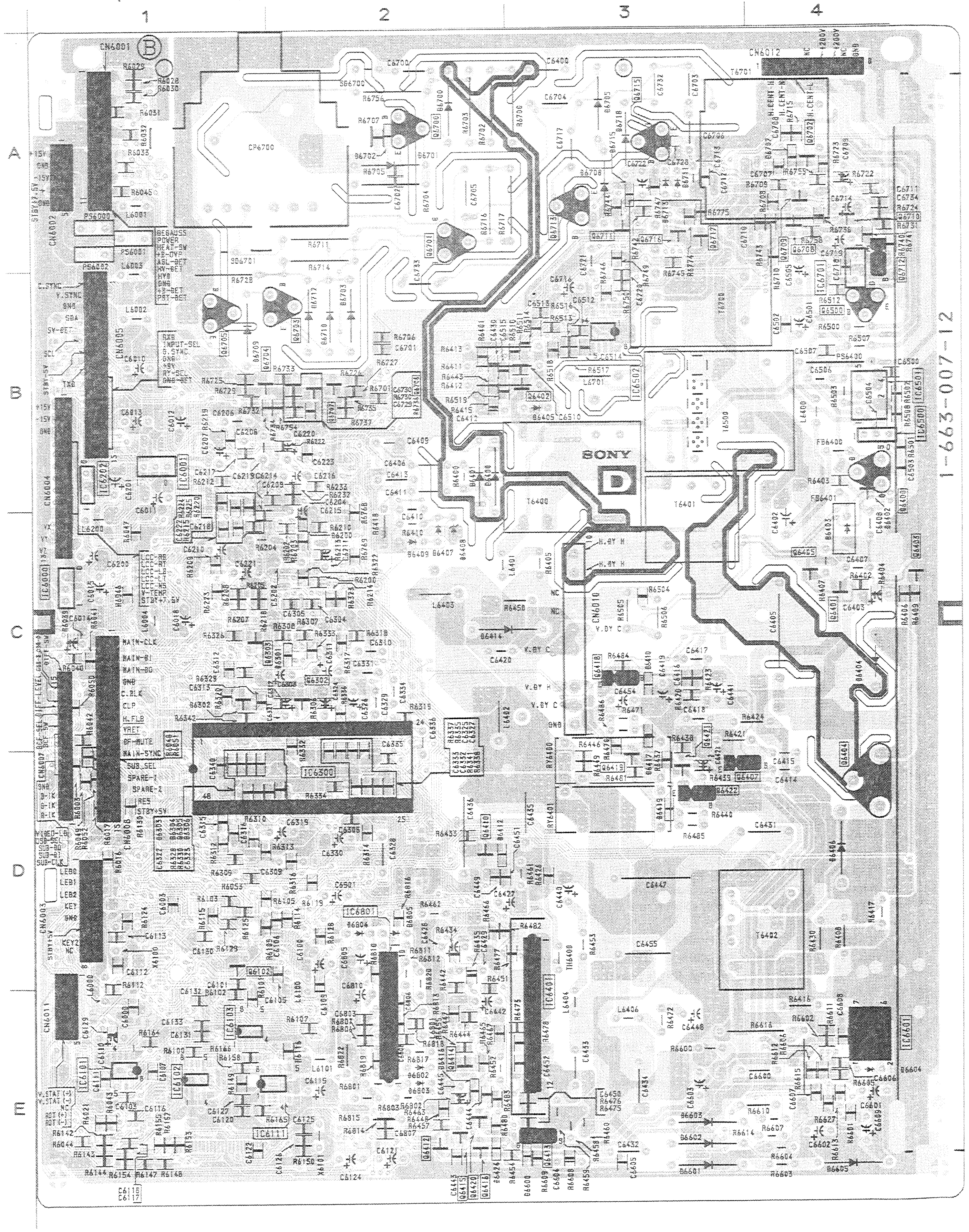
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

	Part replaced (◪)	
HV Regulator Circuit Check	GB board	IC4202 • Mounted GB board
HV Hold-Down Circuit Check	G board	D4220 • Mounted G board • Mounted GB board
Beam Current Protector#1 Circuit Check	G board	D4220,R4211,R4212,R4216,R4219 D4204,D4206 • Mounted G board
	GB board	IC4202 • Mounted GB board
Beam Current Protector#2 Circuit Check	G board	R4222,R4223 • Mounted G board • Mounted GB board
Voltage of 3rd winding of FBT	G board	T4202(FBT) • Mounted G board

— D BOARD (Conductor Side) —

D [μ-COM DEFLECTION OUTPUT DYNAMIC FOCUS]



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

● D BOARD SEMICONDUCTOR LOCATION

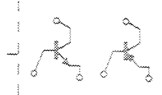
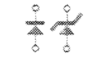
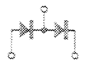
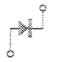
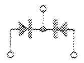
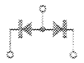
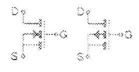
IC	(Conductor Side)	(Component Side)
IC6000	C-1	C-4
IC6001	B-1	B-4
IC6100		D-4
IC6101	E-1	
IC6102	E-1	
IC6103	E-1	
IC6110		E-4
IC6111	E-1	
IC6112		C-4
IC6200		B-3
IC6201		C-4
IC6202	B-1	B-4
IC6300	D-2	D-2
IC6301		C-3
IC6302		C-3
IC6303		D-3
IC6304		C-4
IC6306		D-4
IC6307		C-4
IC6401	E-3	E-2
IC6402		E-3
IC6500	B-4	B-1
IC6501	E-4	B-1
IC6502	B-3	
IC6600		E-1
IC6601	E-4	E-1
IC6700		A-1
IC6701	B-4	B-1
IC6702		B-2
IC6703		C-3
IC6704		B-3
IC6801	E-2	E-3

TRANSISTOR	(Conductor Side)	(Component Side)	*
Q6200		B-3	⑩
Q6201		B-3	①
Q6300		D-4	①
Q6301		D-4	①
Q6302	C-2		①
Q6400	B-4	B-1	–
Q6401	C-4		①
Q6402	B-3		①
Q6403	C-4		⑨
Q6404	D-4	D-1	–
Q6405	C-4		①
Q6406		C-1	①
Q6407	D-3	D-1	–
Q6408		C-2	①
Q6410	D-2		①
Q6411		D-2	①
Q6412	E-2		①
Q6413	E-3	E-2	–
Q6414	E-3		①
Q6415	E-3		①
Q6416	E-3		①
Q6417		E-2	①
Q6418	C-3	C-2	–
Q6419	D-3		①
Q6420	E-3		①
Q6421	D-3		①
Q6422	D-3	D-2	–
Q6500	B-4	B-1	–
Q6700	A-2	A-3	–
Q6702	A-4		①
Q6708	A-4		①
Q6709	A-4		①
Q6710	A-4		①
Q6711	A-3		①
Q6712	A-4	A-1	–
Q6713	A-3	A-2	–
Q6715	A-3		–
Q6716	A-3		①
Q6717	A-3		①

DIODE	(Conductor Side)	(Component Side)	*
D6000		D-4	⑧
D6001		D-4	⑥
D6002		D-4	⑦
D6003		D-4	⑦
D6004		E-4	⑤
D6005		D-4	⑤
D6200	C-2		③
D6300		C-3	③
D6301	C-2		③
D6302	C-1		④
D6303	D-1		③
D6304	D-1		③
D6305	D-1		③
D6306	D-1		③
D6400	B-2	B-2	–
D6401	B-2	B-2	–
D6402	B-4		⑥
D6403	C-4	C-1	–
D6404	C-4	C-1	–
D6405	B-3	B-2	–
D6406	D-4	D-1	–
D6407	C-2	C-3	–
D6408	C-2	C-3	–
D6409	C-2	C-3	–
D6410	C-3		③
D6412	D-2		③
D6413		E-3	⑥
D6414	C-2	C-2	–
D6415		D-2	③
D6416	E-2		③
D6417	C-3		③
D6418		D-3	⑧
D6419	D-3		③
D6424	E-2		③
D6500		B-1	③
D6600	E-3		③
D6601	E-3	E-2	–
D6602	E-3	E-2	–
D6603	E-3	E-2	–
D6604	E-4	E-1	–
D6605	E-4	E-1	–
D6700	A-2	A-3	–
D6701	A-2	A-3	–
D6702	A-2		③
D6707	A-4		③
D6711	A-3	A-2	–
D6713	A-3	A-2	–
D6714		C-3	③
D6715	A-3		③
D6716		C-3	③
D6718	A-3		–
D6801		E-3	③
D6802	E-2	E-3	–
D6803	E-2	E-3	–
D6804	D-2	D-3	–
D6805	D-2	D-3	–
D6901		E-3	③
D6902		D-3	③

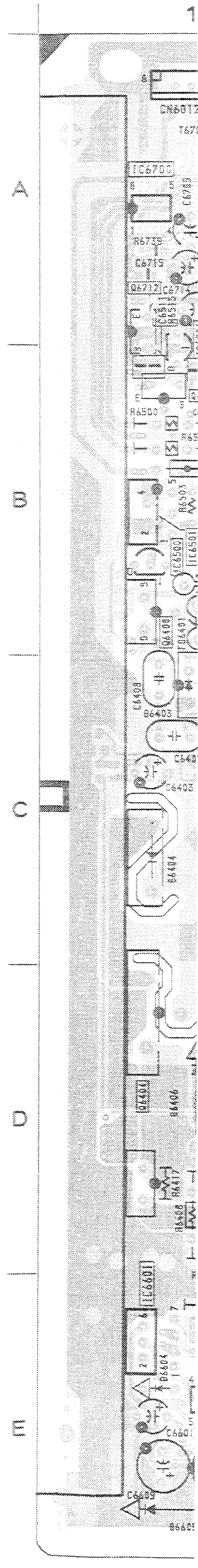
CRYSTAL	(Conductor Side)	(Component Side)
X6100	D-1	D-4
X6101	E-2	E-3

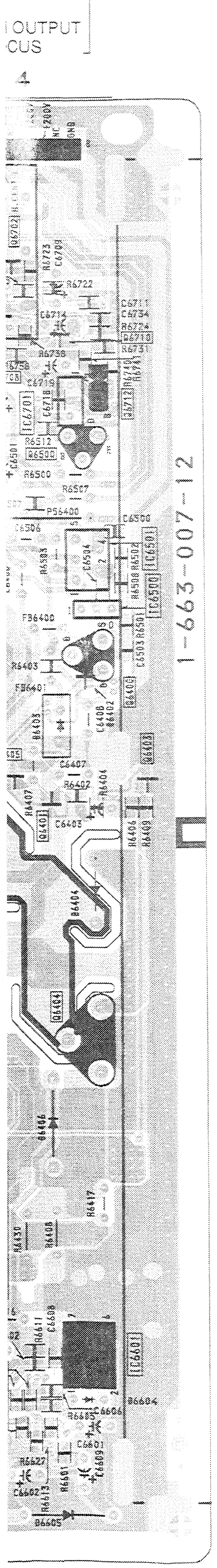
D BOARD Terminal name of semiconductors in silk screen printed circuit (*)

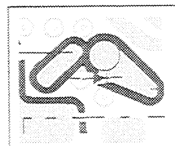
	Device	Printed symbol	Terminal name	Circuit
①	Transistor	┳	Collector Base ┳ Emitter	
②	Transistor	▬	Collector ▬ Base Emitter	
③	Diode	Π	Cathode — Π — Anode	
④	Diode	┳	Common Anode ┳ Cathode	
⑤	Diode	▬	Common ▬ Anode Cathode	
⑥	Diode	▬	Cathode ▬ Anode NC	
⑦	Diode	▬	Cathode ▬ Anode Anode	
⑧	Diode	▬	Anode ▬ Cathode Cathode	
⑨	Transistor (FET)	┳	Drain Gate ┳ Source	
⑩	Transistor (FET)	▬	Drain ▬ Gate Source	
–	Discrete semiconductor			

- ▨ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

— D BOARD (C







NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

● D BOARD SEMICONDUCTOR LOCATION

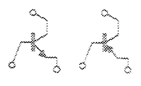
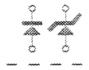
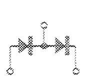
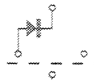
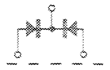
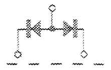
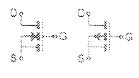
IC	(Conductor Side)	(Component Side)
IC6000	C–1	C–4
IC6001	B–1	B–4
IC6100		D–4
IC6101	E–1	
IC6102	E–1	
IC6103	E–1	
IC6110		E–4
IC6111	E–1	
IC6112		C–4
IC6200		B–3
IC6201		C–4
IC6202	B–1	B–4
IC6300	D–2	D–2
IC6301		C–3
IC6302		C–3
IC6303		D–3
IC6304		C–4
IC6306		D–4
IC6307		C–4
IC6401	E–3	E–2
IC6402		E–3
IC6500	B–4	B–1
IC6501	B–4	B–1
IC6502	B–3	
IC6600		E–1
IC6601	E–4	E–1
IC6700		A–1
IC6701	B–4	B–1
IC6702		B–2
IC6703		C–3
IC6704		B–3
IC6801	E–2	E–3

TRANSISTOR	(Conductor Side)	(Component Side)	*
Q6200		B–3	⑩
Q6201		B–3	①
Q6300		D–4	①
Q6301		D–4	①
Q6302	C–2		①
Q6400	B–4	B–1	–
Q6401	C–4		①
Q6402	B–3		①
Q6403	C–4		⑨
Q6404	D–4	D–1	–
Q6405	C–4		①
Q6406		C–1	①
Q6407	D–3	D–1	–
Q6408		C–2	①
Q6410	D–2		①
Q6411		D–2	①
Q6412	E–2		①
Q6413	E–3	E–2	–
Q6414	E–3		①
Q6415	E–3		①
Q6416	E–3		①
Q6417		E–2	①
Q6418	C–3	C–2	–
Q6419	D–3		①
Q6420	E–3		①
Q6421	D–3		①
Q6422	D–3	D–2	–
Q6500	B–4	B–1	–
Q6700	A–2	A–3	–
Q6702	A–4		①
Q6708	A–4		①
Q6709	A–4		①
Q6710	A–4		①
Q6711	A–3		①
Q6712	A–4	A–1	–
Q6713	A–3	A–2	–
Q6715	A–3		–
Q6716	A–3		①
Q6717	A–3		①

DIODE	(Conductor Side)	(Component Side)	*
D6000		D–4	⑥
D6001		D–4	⑧
D6002		D–4	⑦
D6003		D–4	⑦
D6004		E–4	⑤
D6005		D–4	⑤
D6200	C–2		③
D6300		C–3	③
D6301	C–2		③
D6302	C–1		④
D6303	D–1		③
D6304	D–1		③
D6305	D–1		③
D6306	D–1		③
D6400	B–2	B–2	–
D6401	B–2	B–2	–
D6402	B–4		⑥
D6403	C–4	C–1	–
D6404	C–4	C–1	–
D6405	B–3	B–2	–
D6406	D–4	D–1	–
D6407	C–2	C–3	–
D6408	C–2	C–3	–
D6409	C–2	C–3	–
D6410	C–3		③
D6412	D–2		③
D6413		E–3	⑥
D6414	C–2	C–2	–
D6415		D–2	③
D6416	E–2		③
D6417	C–3		③
D6418		D–3	⑧
D6419	D–3		③
D6424	E–2		③
D6500		B–1	③
D6600	E–3		③
D6601	E–3	E–2	–
D6602	E–3	E–2	–
D6603	E–3	E–2	–
D6604	E–4	E–1	–
D6605	E–4	E–1	–
D6700	A–2	A–3	–
D6701	A–2	A–3	–
D6702	A–2		③
D6707	A–4		③
D6711	A–3	A–2	–
D6713	A–3	A–2	–
D6714		C–3	③
D6715	A–3		③
D6716		C–3	③
D6718	A–3		–
D6801		E–3	③
D6802	E–2	E–3	–
D6803	E–2	E–3	–
D6804	D–2	D–3	–
D6805	D–2	D–3	–
D6901		E–3	③
D6902		D–3	③

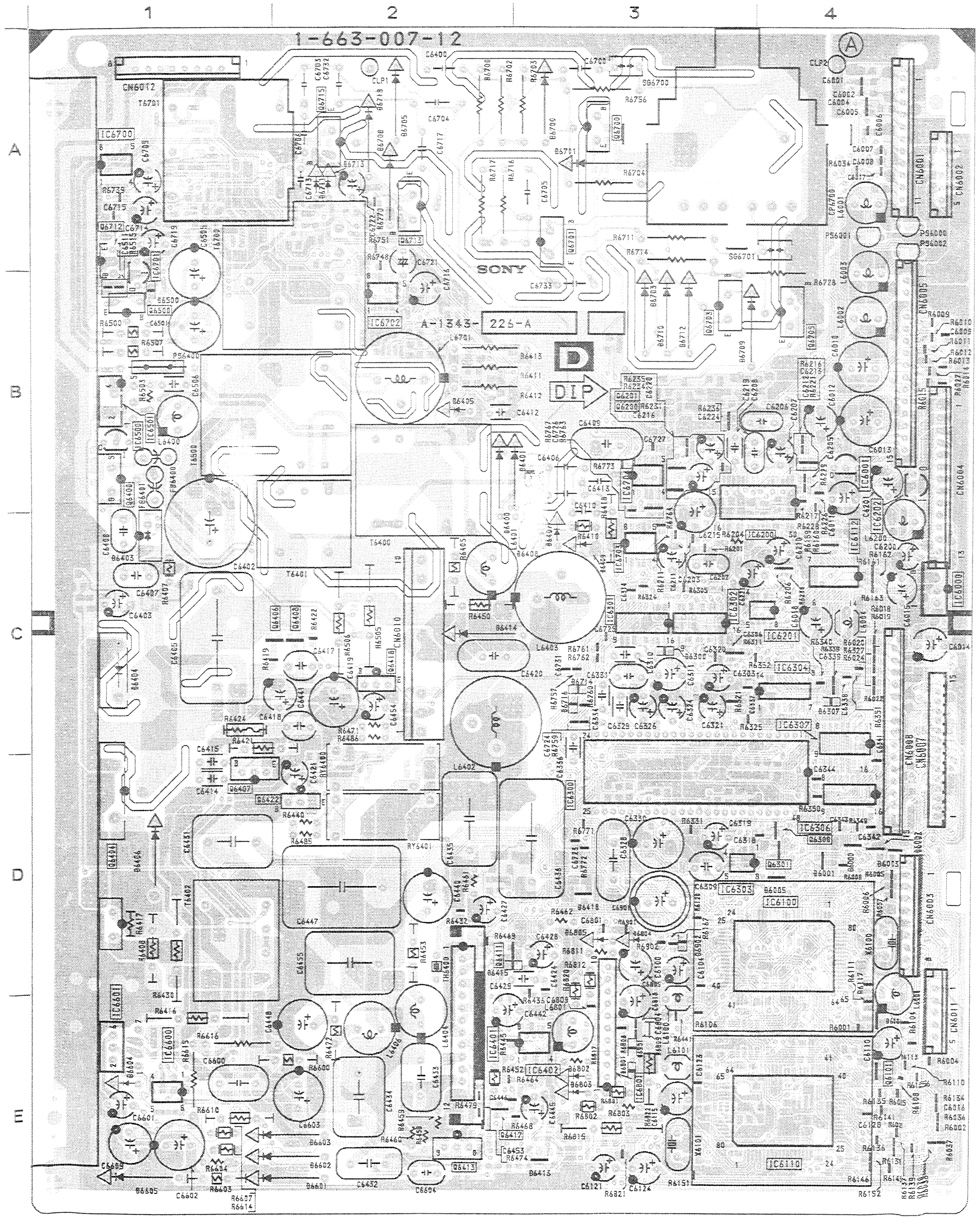
CRYSTAL	(Conductor Side)	(Component Side)
X6100	D–1	D–4
X6101	E–2	E–3

D BOARD Terminal name of semiconductors in silk screen printed circuit (*)

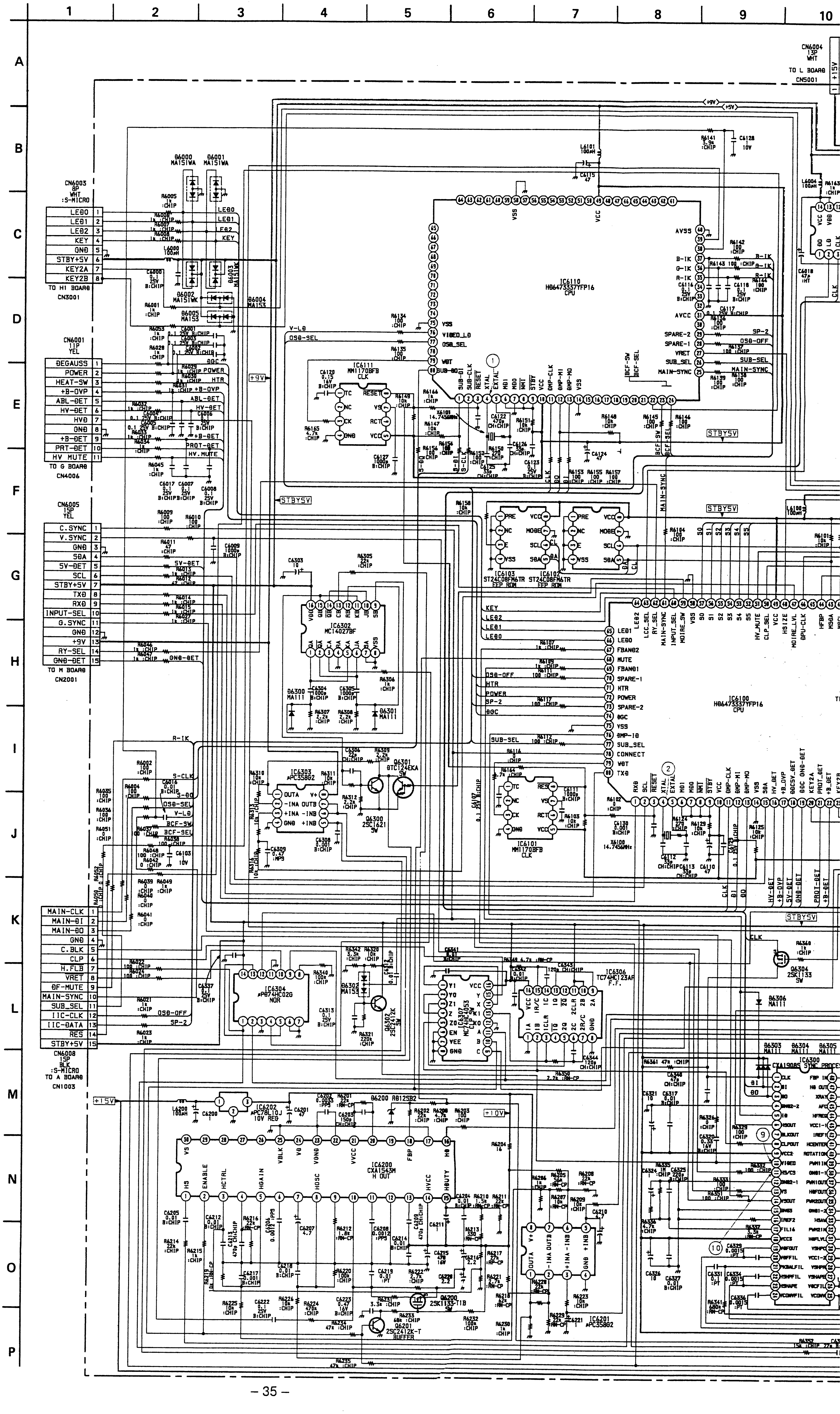
	Device	Printed symbol	Terminal name	Circuit
①	Transistor	┳	Collector Base ┳ Emitter	
②	Transistor	▬	Collector ▬ Base Emitter	
③	Diode	∏	Cathode ∏ Anode	
④	Diode	┳	Common Anode ┳ Cathode	
⑤	Diode	▬	Common ▬ Anode Cathode	
⑥	Diode	▬	Cathode ▬ Anode NC	
⑦	Diode	▬	Cathode ▬ Anode Anode	
⑧	Diode	▬	Anode ▬ Cathode Cathode	
⑨	Transistor (FET)	┳	Drain Gate ┳ Source	
⑩	Transistor (FET)	▬	Drain ▬ Gate Source	
–	Discrete semiconductor			

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

— D BOARD (Component Side) —



(1) Schematic Diagram of D Board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A
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I
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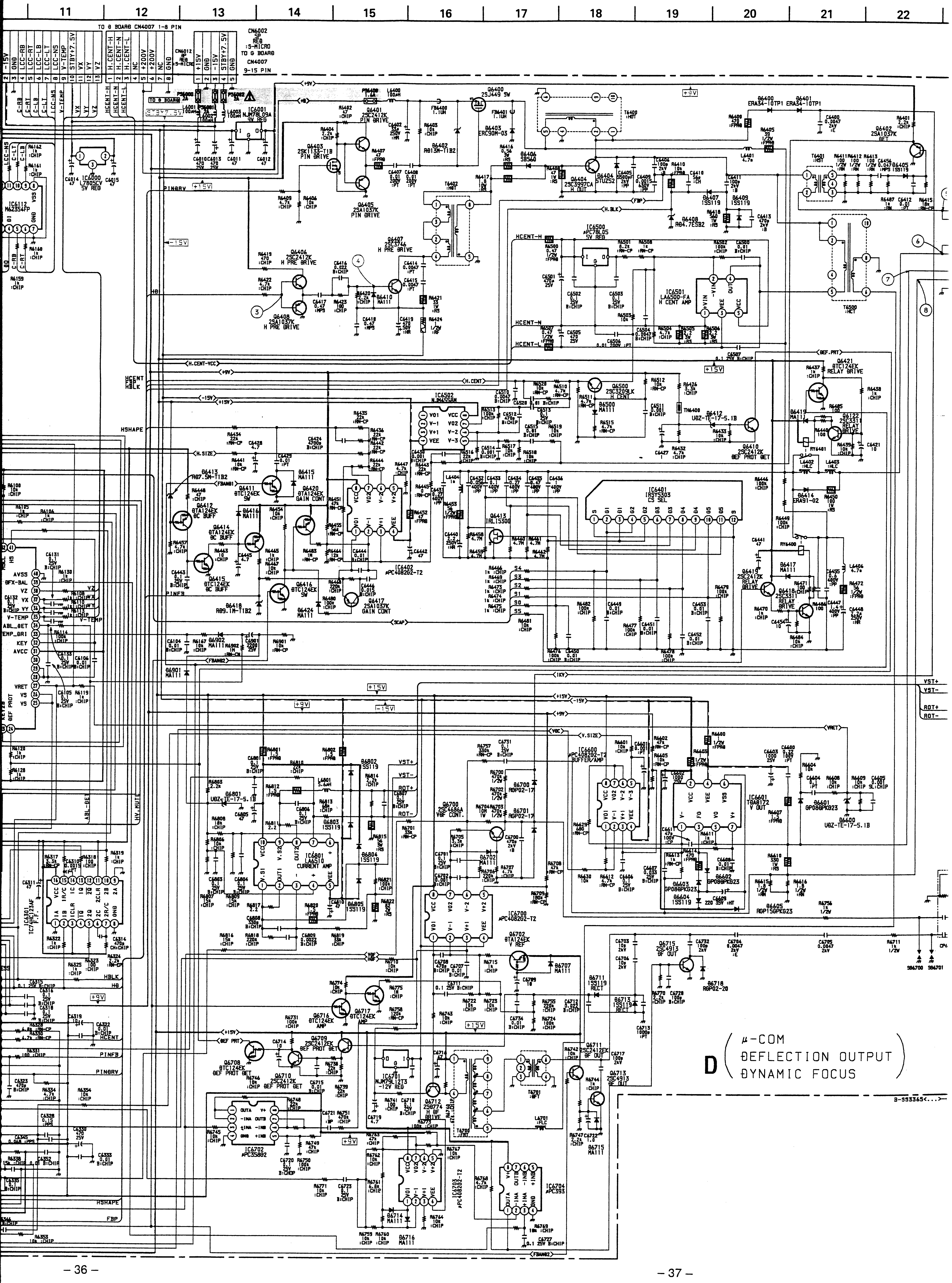
K
L
M
N
O
P
CN6004 13P WHT TO L BOARD CN5001
CN6003 8P WHT :S-MICRO
LED0
LED1
LED2
KEY
GND
STBY+5V
KEY2A
KEY2B
TO HI BOARD CN3001
D6000 MA151WA
D6001 MA151WA
D6002 MA151WK
D6003 MA151WK
D6004 MA153
D6005 MA153
CN6001 11P YEL
DEGAUSS
POWER
HEAT-SW
+B-OVP
ABL-DET
HV-DET
HVD
GND
+B-DET
PRT-DET
HV MUTE
TO G BOARD CN4006
CN6005 15P YEL
C.SYNC
V.SYNC
GND
SDA
5V-DET
SCL
STBY+5V
TXD
RXD
INPUT-SEL
G.SYNC
GND
+9V
RY-SEL
GND-DET
TO M BOARD CN2001
CN6008 15P BLK :S-MICRO TO A BOARD CN1003
MAIN-CLK
MAIN-DI
MAIN-DO
GND
C.BLK
CLP
H.FLB
VRET
DF-MUTE
MAIN-SYNC
SUB_SEL
IIC-CLK
IIC-DATA
RES
STBY+5V
IC6110 HD6473337YFP16 CPU
IC6111 MM1170BFB CLK
IC6100 HD6473337YFP16 CPU
IC6101 MM1170BFB CLK
IC6103 ST24C08FM6TR EEP ROM
IC6102 ST24C08FM6TR EEP ROM
IC6302 MC14027BF
IC6303 µPC358G2
IC6304 µPD74HC02G NOR
IC6307 MC74HC4053
IC6306 TC74HC123AF F.F.
IC6200 CXA1543M H OUT
IC6202 µPC78L10J 10V REG
IC6201 µPC358G2
IC6300 CXA1908S SYNC PROCESS
Q6300 2SC1621 SW
Q6301 DTC124EKA SW
Q6302 2SC2412K
Q6304 2SK1133 SW
Q6200 2SK1133-T1B
Q6201 2SC2412K-T BUFFER
D6200 RB125B2
D6300 MA111
D6301 MA111
D6302 MA153
D6303 MA111
D6304 MA111
D6305 MA111
D6306 MA111
X6101 14.7456MHz
X6100 14.7456MHz
L6101 100µH
L6004 100µH
L6000 100µH
L6100 100µH
L6200 100µH
STBY5V
+9V
+15V
+10V
+5V
+9V
AVSS
B-IK
G-IK
R-IK
AVCC
SPARE-2
SPARE-1
VRET
SUB_SEL
MAIN-SYNC
VSS
VIDEO_LD
OSD_SEL
VDT
SUB-DO
SUB-CLK
RESET
XTAL
EXTAL
MD1
MD0
NMI
STBY
VCC
DMP-CLK
DMP-MI
DMP-MO
BCF-SW
BCF-SEL
LED1
LED0
FBAND2
MUTE
FBAND1
SPARE-1
HTR
POWER
SPARE-2
DGC
VSS
DMP-ID
SUB_SEL
CONNECT
VDT
TXD
RXD
SCL
SDA
HV_MUTE
CLP_SEL
HSIZE
MOIRE_LVL
DPU-CLK
HV_DET
+B_OVP
DGC5V_DET
DGC GND-DET
KEY2A
PROT-DET
+B-DET
LCC_SEL
RY_SEL
INPUT_SEL
MOIRE_SW
OSD-OFF
V-LD
OSD-SEL
R-IK
S-CLK
S-DO
BCF-SW
BCF-SEL
SV-DET
ABL-DET
HV-DET
PROT-DET
HV.MUTE
OSD-OFF
SP-2
GND-DET
PRE
VCC
MODE
SCL
SDA
VSS
NC
E
TC
CK
GND
RESET
VS
RCT
OUTA
-INA
+INA
OUTB
-INB
+INB
V+
HS
ENABLE
HCTRL
HGAIN
VBLK
VD
VGND
HOSC
VVCC
FBP
HD
HVCC
HBUTY
CLK
FBP IN
HD OUT
XRAY
AFC
HFREQ
VCC1
IREF1
HCENTER
ROTATION
PWM1IN
GND1
PWM1OUT
HDFOUT
PWM2OUT
GND1-2
HSAW
PWM2IN
HWFLYL
YSHP
YCC1-2
YSHAPE
YECFIL
VCONV
VIDEO
HS/CS
GND2-1
VS
VSOUT
GND3
IREF2
FIL16
VCC3
HDFOUT
HDFFIL
HCBALFIL
HSHPFIL
HSHAPE
VCONVFIL
CLPOUT
BLKOUT
HSOUT
GND2-2
VCC2
①
②
⑨
⑩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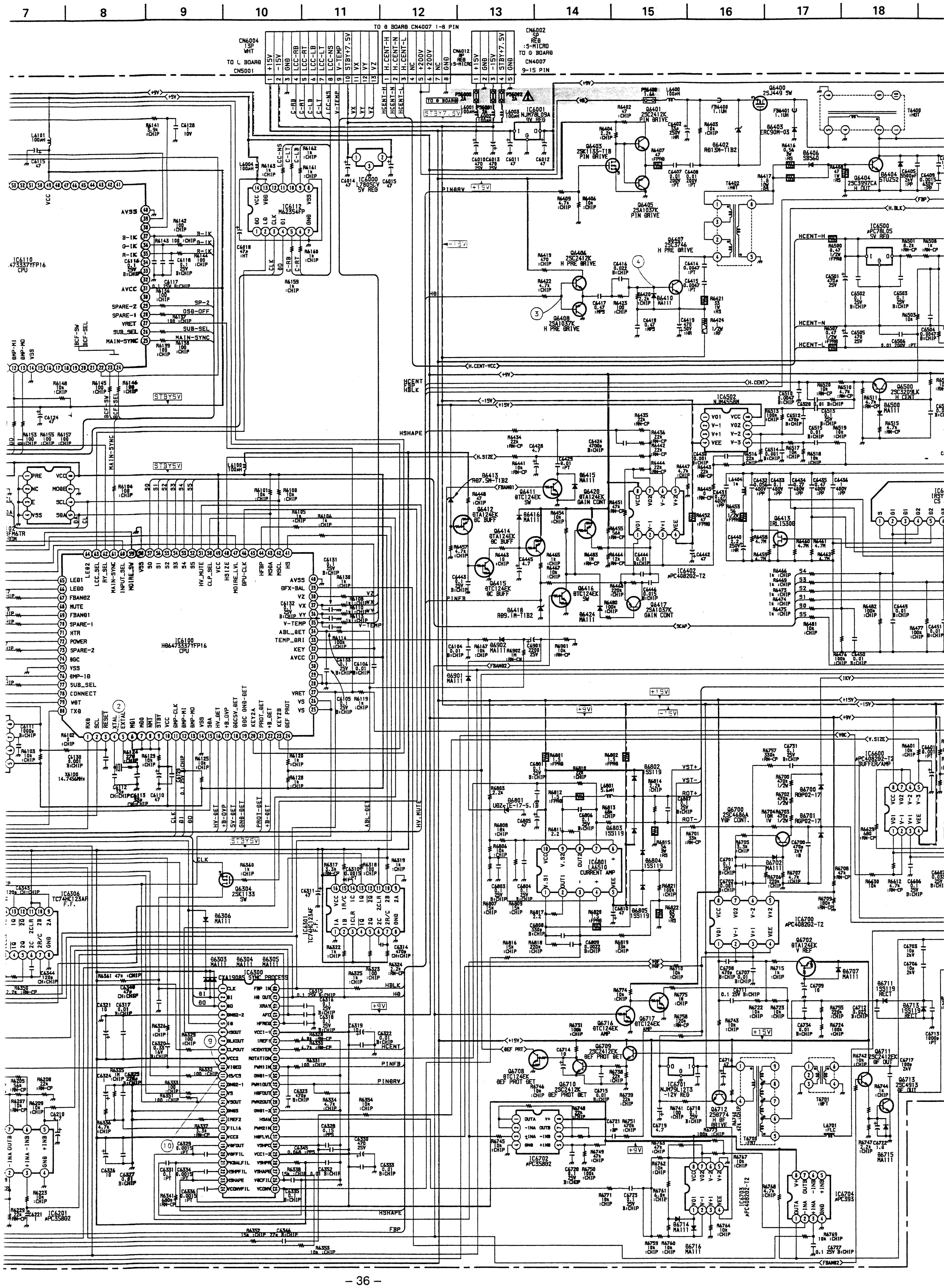
TO B BOARD CN4007 1-8 PIN
CN6002 5P REB :S-MICRO TO G BOARD CN4007 9-15 PIN
CN6012 8P REB :S-MICRO
IC6000 L7805CV 5V REG
IC6001 NJM78L09A 9V REG
IC6112 M62354FP
Q6400 2SJ449 SW
Q6401 2SC2412K PIN DRIVE
Q6403 2SK1133-T1B PIN DRIVE
Q6405 2SA1037K PIN DRIVE
Q6406 2SC2412K H PRE DRIVE
Q6407 2SC3746 H PRE DRIVE
Q6408 2SA1037K H PRE DRIVE
Q6404 2SC3997CA H OUT
Q6402 2SA1037K DFT
T6400 HDT
T6401 HSY
T6402 HDT
T6500 HCT
D6400 ERA34-10TP1
D6401 ERA34-10TP1
D6402 RB15N-T1B2
D6403 ERC90M-03
D6406 SB560
D6407 1SS119
D6408 RD4.7ESB2
D6409 1SS119
D6410 MA111
IC6500 μPC78L05 5V REG
IC6501 LA6500-FA H CENT AMP
IC6502 NJM4558M
Q6500 2SC3209LK H CENT
D6500 MA111
Q6410 2SC2412K DEF PROT DET
Q6421 DTC124EK RELAY DRIVE
D6412 UDZ-TE-17-5.1B
D6414 ERA91-02
IC6401 IRSY5303 CS SEL
D6413 RD7.5M-T1B2
Q6412 DTA124EK DC BUFF
Q6414 DTA124EK DC BUFF
Q6415 DTC124EK DC BUFF
Q6420 DTA124EK GAIN CONT
D6415 MA111
D6416 MA111
Q6413 IRL1530G
IC6402 μPC4082G2-T2
Q6416 DTC124EK SW
Q6417 2SA1037K GAIN CONT
D6418 RD9.1M-T1B2
D6424 MA111
Q6419 2SC2412K RELAY DRIVE
Q6418 2SC3311 RELAY DRIVE
D6417 MA111
RY6400
RY6401
D6901 MA111
D6902 MA111
IC6101 TC74HC123AF F.F.
D6801 UDZ-TE-17-5.1B
IC6801 LA6510 CURRENT AMP
D6802 SS119
D6803 1SS119
D6804 1SS119
D6805 1SS119
Q6700 2SC4686A VDF CONT
D6700 RGP02-17
D6701 RGP02-17
D6702 MA111
IC6700 μPC4082G2-T2
IC6600 μPC4082G2-T2 BUFFER/AMP
IC6601 TDA8172 V OUT
D6600 UDZ-TE-17-5.1B
D6601 GP08DPKG23
D6602 GP08DPKG23
D6603 GP08DPKG23
D6604 1SS119
D6605 RGP15GPKG23
Q6702 DTA124EK V REF
D6707 MA111
Q6715 2SC4913 DF OUT
D6718 RGP02-20
D6711 1SS119 RECT
D6713 1SS119 RECT
Q6716 DTC124EK AMP
Q6717 DTC124EK AMP
Q6708 DTC124EK DEF PROT DET
Q6709 2SC2412EK DEF PROT DET
Q6710 2SC2412K DEF PROT DET
IC6701 NJM79L12T3 -12V REG
Q6712 2SD774 H DF DRIVE
T6701 DFT
T6700 FBT
L6701 FLC
Q6711 2SC2412EK DF OUT
Q6713 2SC4913 DF OUT
D6715 MA111
IC6702 μPC35802
IC6703 μPC4082G2-T2
D6714 MA111
D6716 MA111
IC6704 μPC393
VST+
VST-
ROT+
ROT-
HBLK
HD
PINFB
PINDRV
HSHAPE
FBP
B-333365<...>

D (μ-COM DEFLECTION OUTPUT DYNAMIC FOCUS)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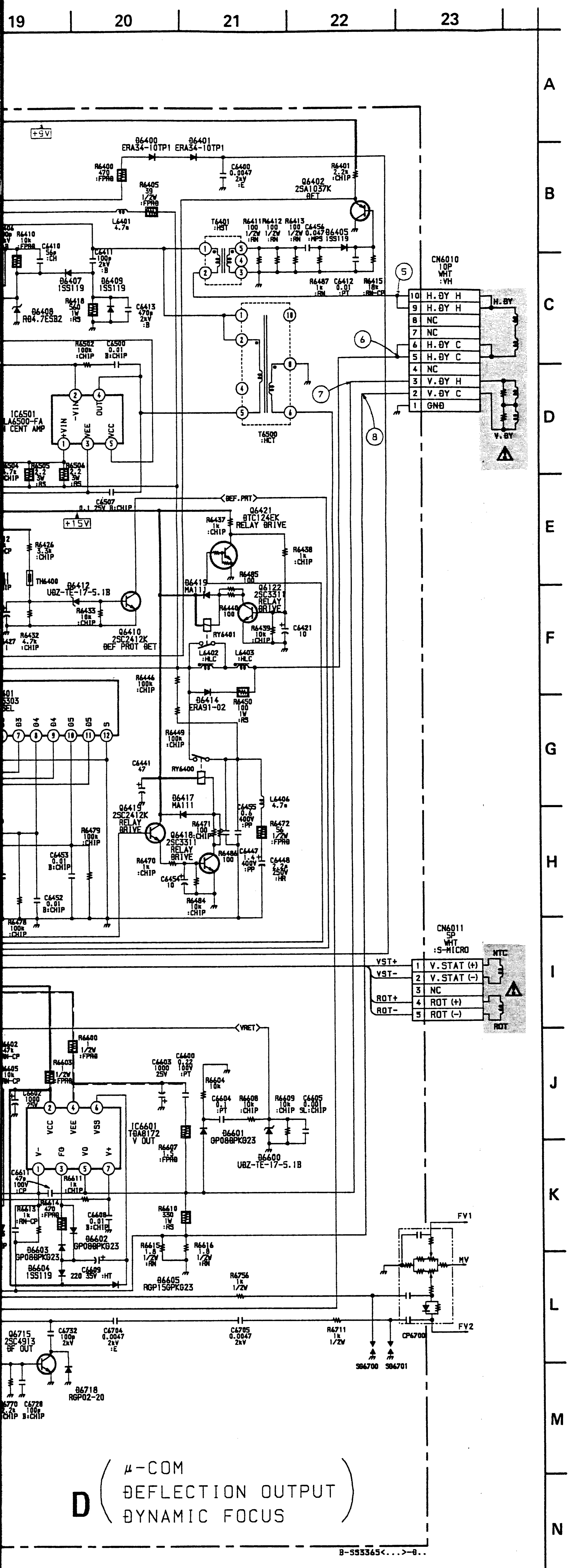
TO G BOARD CN4007 1-8 PIN
CN6004 13P WHT
TO L BOARD CN5001
CN6002 5P RED :S-MICRO
TO G BOARD CN4007 9-15 PIN
CN6012 8P RED S-MICRO
IC6001 NJM78L09A 9V REG
IC6000 L7805CV 5V REG
IC6112 M62354FP
IC6110 H8/3337YFP16 CPU
IC6100 H8/3337YFP16 CPU
X6100 14.7456MHz
Q6304 2SK1133 SW
IC6306 TC74HC123AF F.F.
IC6301 TC74HC123AF F.F.
IC6300 CXA1908S SYNC PROCESS
IC6201 μPC358G2
Q6400 2SJ449 SW
Q6401 2SC2412K PIN DRIVE
Q6402 RD13M-T1B2
Q6403 2SK1133-T1B PIN DRIVE
Q6403 ERC90M-03
Q6405 2SA1037K PIN DRIVE
Q6406 2SC2412K H PRE DRIVE
Q6407 2SC3746 H PRE DRIVE
Q6408 2SA1037K H PRE DRIVE
Q6410 MA111
Q6404 2SC3997CA H OUT
D6404 STUZ52
D6406 SB560
T6402 HDT
T6400 HOT
IC6500 μPC78L05 5V REG
Q6500 2SC3209LK H CENT
D6500 MA111
IC6502 NJM4558M
Q6411 DTC124EK
Q6412 DTA124EK DC BUFF
Q6413 RD7.5M-T1B2
Q6414 DTA124EK DC BUFF
Q6415 DTC124EK DC BUFF
Q6416 DTC124EK SW
Q6417 2SA1037K GAIN CONT
Q6418 RD9.1M-T1B2
Q6420 DTA124EK GAIN CONT
D6415 MA111
D6416 MA111
D6424 MA111
IC6402 μPC4082G2-T2
Q6413 IRL1530S
D6902 MA111
D6901 MA111
IC6801 LA6510 CURRENT AMP
D6801 UDZ-TE-17-5.1B
D6802 1SS119
D6803 1SS119
D6804 1SS119
D6805 1SS119
IC6600 μPC4082G2-T2 BUFFER/AMP
Q6700 2SC4686A VDF CONT.
D6700 RGP02-17
D6701 RGP02-17
D6702 MA111
IC6700 μPC4082G2-T2
Q6702 DTA124EK V REF
D6707 MA111
Q6708 DTC124EK DEF PROT DET
Q6709 2SC2412EK DEF PROT DET
Q6710 2SC2412K DEF PROT DET
Q6716 DTC124EK AMP
Q6717 DTC124EK AMP
IC6701 NJM79L12T3 -12V REG
Q6712 2SB774 H DF DRIVE
T6700 FBT
T6701 DFT
IC6702 μPC358G2
IC6703 μPC4082G2-T2
D6714 MA111
D6716 MA111
D6711 1SS119 RECT
D6713 1SS119 RECT
Q6711 2SC2412EK DF OUT
Q6713 2SC4913 DF OUT
L6701 FLC
D6715 MA111
IC6704 μPC393
STBY5V
STBY7.5V
HSHAPE
HBLK
FBP
PINFB
PINDRV
H.CENT
H.SIZE
V.SIZE
FBAND2
SCAP
IKV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A
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K
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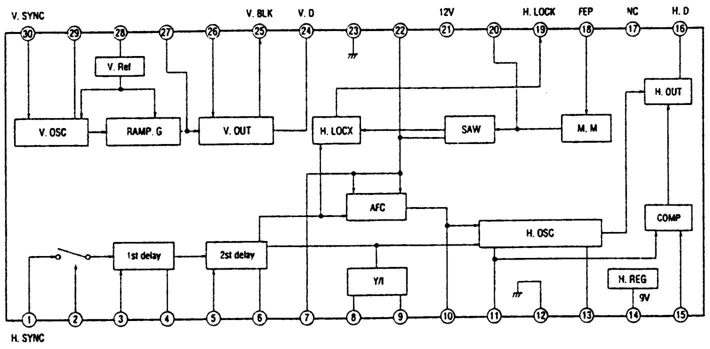
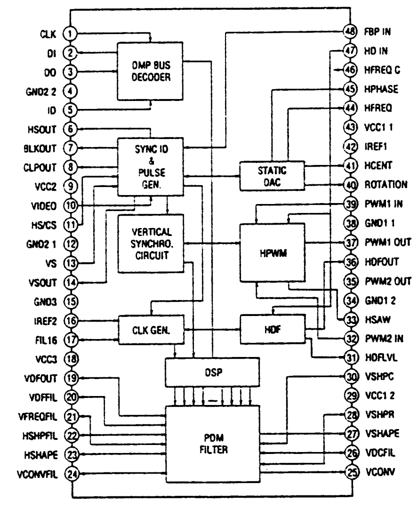
M
N
O
P
+9V
D6400 ERA34-10TP1
D6401 ERA34-10TP1
R6400 470 :FPRB
C6400 0.0047 2kV :E
R6401 2.2k :CHIP
Q6402 2SA1037K BFT
R6405 39 1/2W :FPRB
L6401 4.7m
T6401 :HST
R6410 10k
C6410 56p :CH
C6411 100p 2kV :B
D6407 1SS119
D6409 1SS119
D6408 RD4.7ESB2
R6418 560 1W :RS
C6413 470p 2kV :B
R6487 1k :RM
C6412 0.01 :PT
R6415 10k :RN-CP
CN6010 10P WHT :VH
H.DY H
H.DY H
NC
NC
H.DY C
H.DY C
NC
V.DY H
V.DY C
GND
H.DY
V.DY
R6502 100k :CHIP
C6500 0.01 B:CHIP
IC6501 LA6500-FA CENT AMP
+VIN
-VIN
VEE
OUT
VCC
T6500 :HCT
C6507 0.1 25V B:CHIP
+15V
Q6421 DTC124EK RELAY DRIVE
R6437 1k :CHIP
R6438 1k :CHIP
R6426 3.3k :CHIP
TH6400
D6412 UDZ-TE-17-5.1B
D6419 MA111
R6485 100
Q6422 2SC3311 RELAY DRIVE
R6440 100
RY6401
R6439 10k :CHIP
C6421 10
Q6410 2SC2412K DEF PROT DET
L6402 :HLC
L6403 :HLC
R6446 100k :CHIP
D6414 ERA91-02
R6450 100 1W :RS
R6449 100k :CHIP
C6441 47
RY6400
D6417 MA111
Q6419 2SC2412K RELAY DRIVE
Q6418 2SC3311 RELAY DRIVE
R6471 100
C6455 0.6 400V :PP
L6404 4.7m
R6472 56 1/2W :FPRB
R6479 100k :CHIP
C6453 0.01 B:CHIP
R6470 1k :CHIP
C6454 10
R6484 100
C6447 1.4 400V :PP
C6448 2.2 250V :HR
R6484 10k :CHIP
C6452 0.01 B:CHIP
CN6011 5P WHT :S-MICRO
VST+
VST-
ROT+
ROT-
V.STAT (+)
V.STAT (-)
NC
ROT (+)
ROT (-)
NTC
ROT
VRET
R6600 1/2W :FPRB
C6603 1000 25V
C6600 0.22 100V :PT
R6604 10k
C6604 0.1 :PT
R6608 10k :CHIP
R6609 10k :CHIP
C6605 0.001 SL:CHIP
IC6601 TDA8172 V OUT
D6601 GP08BPK023
R6607 1.5 :FPRB
D6600 UDZ-TE-17-5.1B
VCC
VEE
FG
VO
VSS
R6610 330 1W :RS
D6602 GP08BPK023
D6603 GP08BPK023
D6604 1SS119
C6609 220 35V :HT
R6615 1.8 1/2W :RN
R6616 1.8 1/2W :RN
D6605 RGP15GPK023
R6756 1k 1/2W
FV1
HV
FV2
CP6700
Q6715 2SC4913 DF OUT
C4732 100p 2kV
C6704 0.0047 2kV :E
C6705 0.0047 2kV
R6711 1k 1/2W
SG6700
SG6701
D6718 RGP02-20
D
μ-COM
DEFLECTION OUTPUT
DYNAMIC FOCUS
8-553365<...>-8..

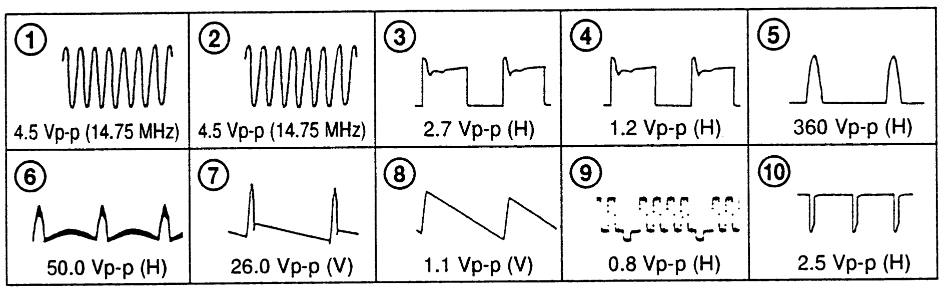
• D BOARD IC6200 CXA1543M


V. SYNC
V. BLK
V. D
12V
H. LOCK
FEP
NC
H. D
V. Ref
H. OUT
V. OSC
RAMP. G
V. OUT
H. LOCK
SAW
M. M
AFC
COMP
H. OSC
1st delay
2st delay
Y/I
H. REG
9V
H. SYNC

• D BOARD IC6300 CXA1908S


CLK
DI
DO
GND2 2
IO
HSOUT
BLKOUT
CLPOUT
VCC2
VIDEO
HS/CS
GND2 1
VS
VSOUT
GND3
IREF2
FIL16
VCC3
VDFOUT
VDFFIL
VFREQFIL
HSHPFIL
HSHAPE
VCONVFIL
FBP IN
HD IN
HFREQ C
HPHASE
HFREQ
VCC1 1
IREF1
HCENT
ROTATION
PWM1 IN
GND1 1
PWM1 OUT
HDFOUT
PWM2 OUT
GND1 2
HSAW
PWM2 IN
HDFLVL
VSHPC
VCC1 2
VSHPR
VSHAPE
VDCFIL
VCONV
OMP BUS DECODER
SYNC ID & PULSE GEN.
STATIC DAC
VERTICAL SYNCHRO CIRCUIT
HPWM
CLK GEN.
HDF
DSP
PDM FILTER

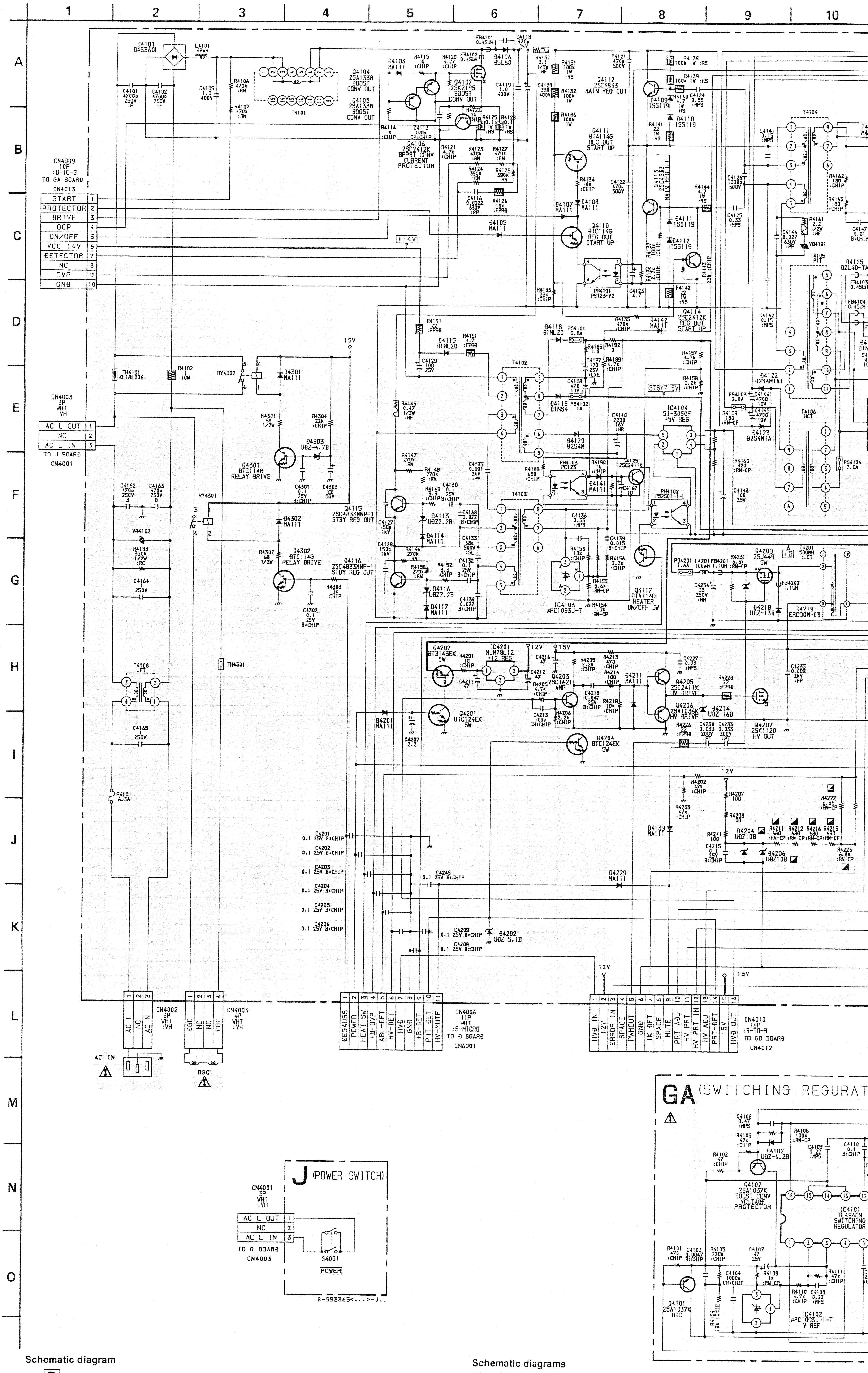
● D BOARD WAVEFORMS



● D BOARD VOLTAGE LIST

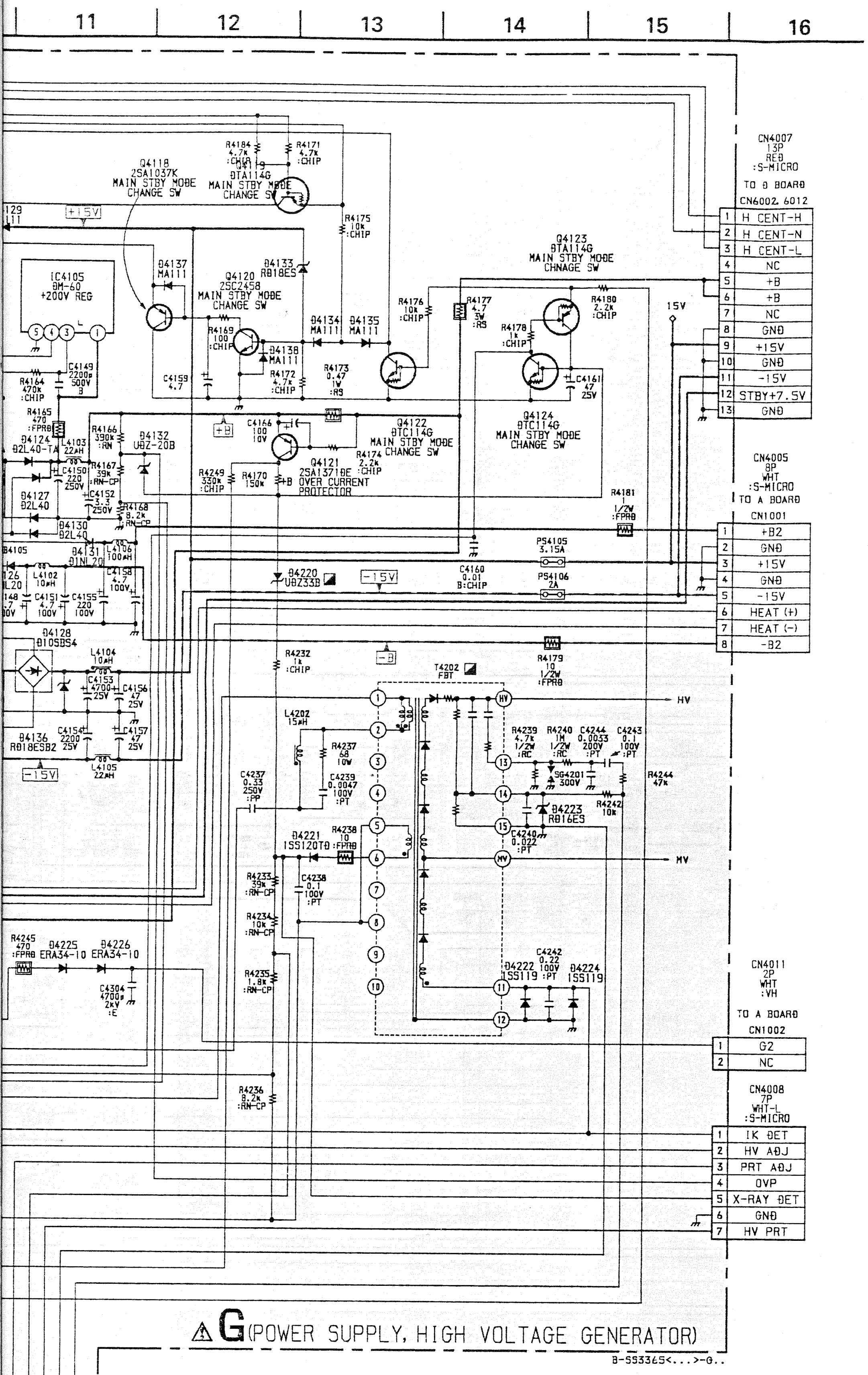
Ref.	Pin No.	Voltage [V]
IC6101	1	0.4
	3	0.1
	7	1.5
	8	4.8
IC6102	5	4.9
	6	4.9
IC6103	3	4.9
	5	4.9
	6	4.9
IC6111	1	0.4
	3	0.1
	7	1.5
	8	4.9
IC6112	2	0
	3	4.9
	4	4.8
	5	2.3
	6	2.9
	9	1.5
	10	2.8
	11	3.5
IC6200	1	4.7
	2	0
	3	0.9
	4	7.4
	5	0.8
	6	8.2
	7	4.3
	8	0.2
	9	1.1
	10	6.6
	11	5.9
	12	0
	13	8.4
	15	8.4
	16	2.5
	18	0.7
	20	7.4
	22	5
IC6201	1	0.2
	2	1.5
	3	*
	5	2.0
	6	1.9
	7	0
IC6300	1	4.9
	2	4.8
	3	4.8
	5	4.9
	6	0.6
	7	1.2
	8	0.7
	10	4.3
	11	4.3
	13	4.9
	14	0.1
	16	1.3
	17	2.6
	19	6.6
	20	7.1
	21	2.0
	22	4.7
	23	4.7
	24	4.7
	25	4.1
	26	2.6
	28	5.2
	30	1.9
	31	2.8
	33	4.4
	37	1.8
	39	5.8
	40	3.5
	41	2.9
	42	2.8
	44	1.5
	45	2.0
	46	0.9
	47	2.5
	48	–0.1
IC6301	2	2.5
	5	0.2
	6	0
	7	4.8
	10	0.6
	11	5.0
	13	0.8
	14	0
	15	4.3
IC6302	1	2.5
	2	2.5
	3	0.1
	5	2.5
	6	2.5
	9	0
	10	2.5
	11	2.4
	12	0
	13	–0.2
	14	2.5
	15	2.4
IC6303	1	0
	2	0
	3	0
	5	1.9
	6	0
	7	1.9
IC6304	1	4.7
	2	–0.1
	4	0.1
	5	4.9
	8	0.4
	9	0
	10	4.9
	12	0.1
	13	4.9
IC6306	2	0.6
	3	5.0
	5	0.1
	6	0
	7	4.9
	9	0.1
	13	0.2
	14	0
	15	4.8
IC6307	3	0.1
	4	0.7
	5	0.6
	9	0
IC6401	3	19.0
	5	19.0
	6	4.8
	7	0
	8	0
	9	19.1
	10	0
	11	19.0
IC6402	1	*
	2	*
	3	*
	5	*
	6	*
	7	*
IC6500	IN	53.3
	OUT	50.4
IC6501	1	45.4
	2	45.4
	3	37.3
	4	45.6
	5	53.3
IC6502	1	14.4
	2	0.6
	3	0.7
	5	0
	6	0
	7	0
IC6600	1	1.1
	2	1.6
	3	1.6
	5	2.6
	6	2.6
	7	2.6
IC6601	1	1.1
	3	–13.9
	5	0
	6	13.8
	7	1.2
IC6700	1	–11.1
	2	1.7
	3	1.7
	5	7.2
	6	7.3
	7	–2.6
IC6701	OUT	–11.7
IC6702	1	6.7
	2	6.6
	3	6.6
	5	6.3
	6	6.3
	7	5.6
IC6703	1	–0.2
	2	0
	3	0
	6	0
	7	1.5
IC6704	1	0.2
	2	2.1
	3	1.2
IC6801	1	1.0
	2	1.0
	3	3.0
	4	3.0
	6	2.2
	7	2.3
	8	–1.2
	9	–1.2
Q6300	B	0.3
	C	0
Q6301	B	4.9
	C	0
Q6302	B	4.3
	E	4.3
Q6303	B	0
	C	9.5
Q6400	G	196.9
	D	46.8
Q6401	B	11.1
	C	14.5
	E	10.9
Q6402	B	5.0
	E	5.6
Q6403	G	1.2
	D	11.1
	S	0
Q6404	B	–1.3
	C	46.0
Q6405	B	11.0
	E	10.9
Q6406	B	2.4
	C	11.8
	E	2.5
Q6407	B	–14.2
	C	–0.2
	E	–14.2
Q6408	B	2.4
	E	2.5
Q6410	B	0
	C	4.9
Q6411	B	4.5
	C	0
Q6412	B	7.1
	C	0
	E	5.0
Q6413	G	4.8
	D	0
Q6414	B	9.1
	C	5.8
Q6415	B	0
	C	9.1
Q6416	B	4.6
	C	0
Q6417	B	5.3
	C	5.8
	E	5.8
Q6418	B	0.8
	C	0.1
Q6419	B	4.7
	E	4.1
Q6420	B	0
	C	9.2
Q6421	B	4.5
	C	0.1
Q6422	B	0.1
	C	14.4
Q6500	B	3.3
	C	39.7
	E	2.8
Q6700	B	–0.1
	C	204.3
	E	–0.7
Q6702	B	14.5
	C	1.7
Q6703	B	31.1
	C	38.5
	E	48.2
Q6704	B	11.4
	E	10.7
Q6705	B	0
	C	131.2
Q6706	B	0.7
	C	0
Q6707	B	0.7
	C	0
Q6708	B	0
	C	4.9
Q6709	B	5.4
	E	4.8
Q6710	B	0.7
	C	0
Q6711	B	4.5
	E	3.9
Q6712	B	*
	C	*
	E	–11.5
Q6713	B	0.7
	C	0.1
Q6715	B	0.2
	C	325.0

(2) Schematic Diagrams of G, GA, GB and J Boards


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
CN4009
10P
:B-TO-B
TO GA BOARD
CN4013
START
PROTECTOR
DRIVE
OCP
ON/OFF
VCC 14V
DETECTOR
NC
OVP
GND
CN4003
3P
WHT
:VH
AC L OUT
NC
AC L IN
TO J BOARD
CN4001
D4101
D4SB60L
L4101
T4101
TH4101
KL18L006
RY4302
RY4301
Q4301
DTC114G
RELAY DRIVE
Q4302
DTC114G
RELAY DRIVE
T4108
LFT
F4101
6.3A
TH4301
Q4104
2SA1338
BOOST
CONV OUT
Q4103
2SA1338
BOOST
CONV OUT
Q4107
2SK2195
BOOST
CONV OUT
Q4106
2SC2412K
BPPST CPNV
CURRENT
PROTECTOR
Q4112
2SC4833
MAIN REG CUT
Q4111
DTA114G
REG OUT
START UP
Q4110
DTC114G
REG OUT
START UP
Q4113
2SC4833
MAIN REG OUT
Q4114
2SC2412K
REG OUT
START UP
PH4101
PS125FY2
T4102
T4103
T4104
T4105
PIT
T4106
HCT
IC4104
SI-3050F
+5V REG
STBY7.5V
Q4115
2SC4833MNP-1
STBY REG OUT
Q4116
2SC4833MNP-1
STBY REG OUT
PH4103
PC123
PH4102
PS2501-1-L
IC4103
μPC1093J-T
Q4117
DTA114G
HEATER
ON/OFF SW
Q4209
2SJ449
SW
T4201
LOT
Q4202
DTB143EK
SW
IC4201
NJM78L12
+12 REG
Q4203
2SC1621
AMP
Q4201
DTC124EK
SW
Q4204
DTC124EK
SW
Q4205
2SC2411K
HV DRIVE
Q4206
2SA1036K
HV DRIVE
Q4207
2SK1120
HV OUT
D4219
ERC90M-03
+14V
15V
12V
CN4002
3P
WHT
:VH
AC L
NC
AC N
AC IN
CN4004
4P
WHT
:VH
DGC
NC
NC
DGC
DGC
CN4006
11P
WHT
:S-MICRO
TO D BOARD
CN6001
DEGAUSS
POWER
HEAT-SW
+B-OVP
ABL-DET
HVD
GND
+B-DET
PRT-DET
HV-MUTE
CN4010
16P
:B-TO-B
TO GB BOARD
CN4012
HVD IN
12V
ERROR IN
SPACE
PWMOUT
GND
IK DET
SPACE
MUTE
PRT ADJ
HV PRT IN
HV ADJ
PRT-DET
15V
HVD OUT
J (POWER SWITCH)
CN4001
3P
WHT
:VH
AC L OUT
NC
AC L IN
TO G BOARD
CN4003
S4001
POWER
B-SS3365<...>-J..
GA (SWITCHING REGURAT
Q4102
2SA1037K
BOOST CONV
VOLTAGE
PROTECTOR
IC4101
TL494CN
SWITCHING
REGULATOR
Q4101
2SA1037K
DTC
IC4102
μPC1093J-1-T
V REF

Schematic diagram
← D board

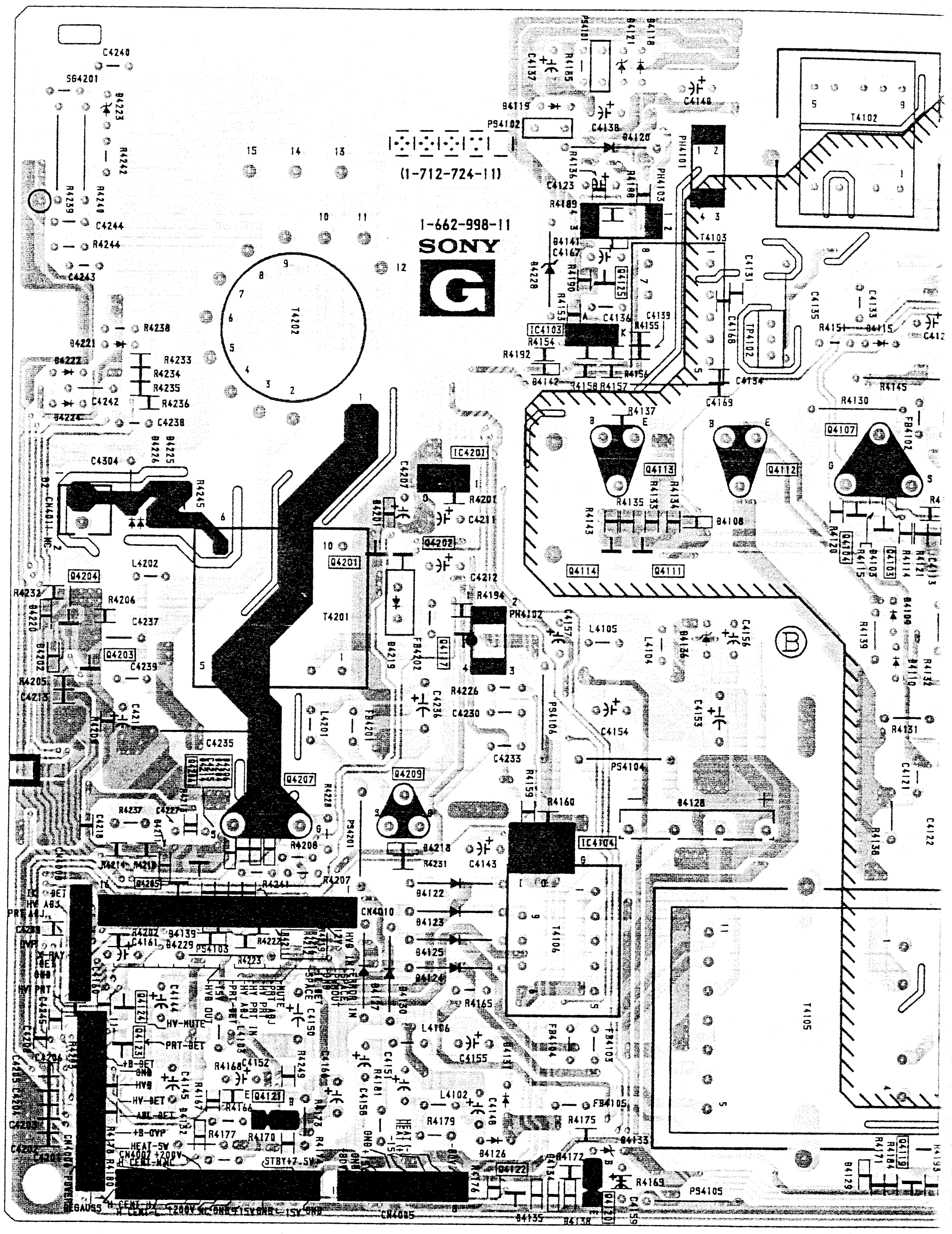
Schematic diagrams
G GA GB J boards →


11
12
13
14
15
16
Q4118 2SA1037K MAIN STBY MODE CHANGE SW
R4184 4.7k :CHIP
R4171 4.7k :CHIP
Q4119 DTA114G MAIN STBY MODE CHANGE SW
R4175 10k :CHIP
+15V
IC4105 BM-60 +200V REG
Q4137 MA111
Q4120 2SC2458 MAIN STBY MODE CHANGE SW
D4133 RD18ES
D4134 MA111
D4135 MA111
D4138 MA111
Q4123 DTA114G MAIN STBY MODE CHNAGE SW
Q4124 DTC114G MAIN STBY MODE CHANGE SW
Q4122 DTC114G MAIN STBY MODE CHANGE SW
Q4121 2SA1371DE OVER CURRENT PROTECTOR
D4132 UDZ-20B
D4127 D2L40
D4130 D2L40
D4131 DINL20
D4128 D1OSBS4
D4136 RD18ESB2
L4104 10μH
L4105 22μH
D4220 UDZ33B
-15V
15V
PS4105 3.15A
PS4106 2A
T4202 FBT
L4202 15μH
R4239 4.7k 1/2W
R4240 1M 1/2W
C4244 0.0033 200V
C4243 0.1 100V
SG4201 300V
D4223 RD16ES
R4244 47k
D4221 1SS120TD
D4222 1SS119
D4224 1SS119
R4245 470 :FPRD
D4225 ERA34-10
D4226 ERA34-10
C4304 4700p 2kV
HV
MV
CN4007 13P RED :S-MICRO
TO D BOARD CN6002, 6012
1 H CENT-H
2 H CENT-N
3 H CENT-L
4 NC
5 +B
6 +B
7 NC
8 GND
9 +15V
10 GND
11 -15V
12 STBY+7.5V
13 GND
CN4005 8P WHT :S-MICRO
TO A BOARD CN1001
1 +B2
2 GND
3 +15V
4 GND
5 -15V
6 HEAT (+)
7 HEAT (-)
8 -B2
CN4011 2P WHT :VH
TO A BOARD CN1002
1 G2
2 NC
CN4008 7P WHT-L :S-MICRO
1 IK DET
2 HV ADJ
3 PRT ADJ
4 OVP
5 X-RAY DET
6 GND
7 HV PRT

⚠G(POWER SUPPLY, HIGH VOLTAGE GENERATOR)

B-SS3365<...>-G..

— G BOARD —

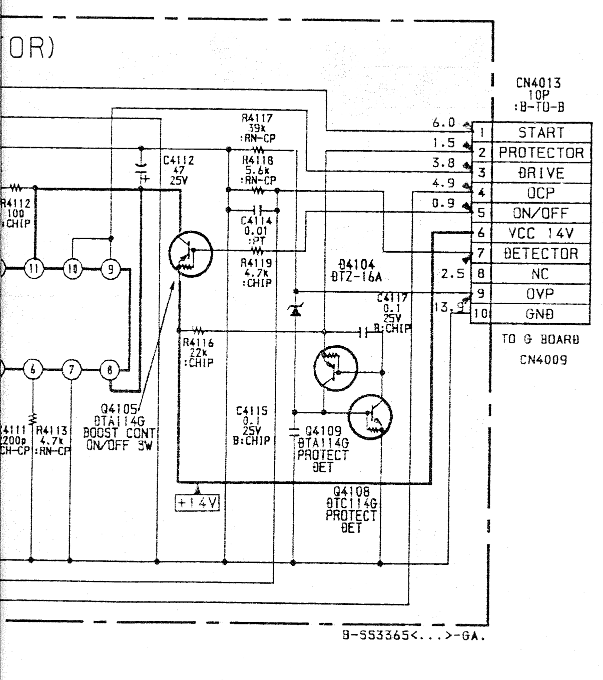

(1-712-724-11)
1-662-998-11
SONY
G
T4202
T4201
T4103
T4102
T4105
T4106
IC4201
IC4103
IC4104
PS4104
PS4105
CN4010
CN4005
CN4007
STBY+7.5V
HV-MUTE
PRT-DET
ABL-DET
HEAT-SW
B

G BOARDTerminal name of semiconductors screen printed circuit

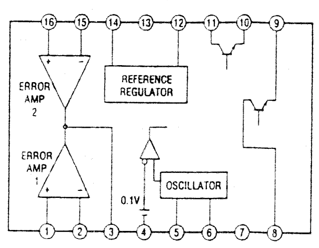
Ref.	Device	Printed symbol
Q4103, Q4104, Q4106, Q4110, Q4111, Q4114, Q4117, Q4118, Q4119, Q4122, Q4123, Q4124, Q4125, Q4201, Q4202, Q4203, Q4204, Q4205, Q4206, Q4301, Q4302	Transistor	┳
D4105, D4107, D4108, D4116, D4117, D4129, D4132, D4134, D4135, D4137, D4138, D4142, D4201, D4202, D4204, D4206, D4211, D4214, D4218, D4220, D4301, D4302, D4303	Diode	⊓

● G BOARD VOLTAGE LIST

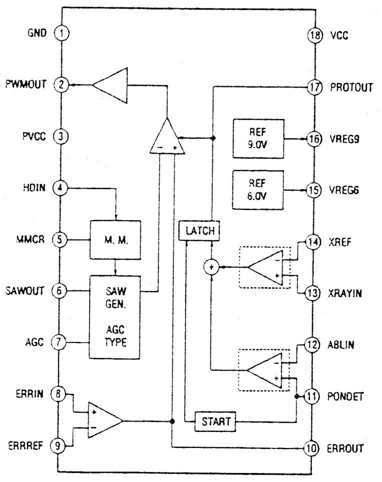
Ref.	Pin No.	Voltage [V]
IC4103	1 3	2.5 14.6
IC4104	1 2 3 4 5	0 2.2 6.1 4.9 7.3
IC4105	1 3 4	198.9 2.5 10.3
PH4101	1 2 4	1.2 0.1 0.2
PH4102	1 2 4	5.2 4.9 2.3
PH4103	1 2 4	1.0 –0.1 0.2
Q4103	B E	3.9 3.3
Q4104	B E	3.3 3.6
Q4106	B C	0.1 4.9
Q4107	G D S	3.6 90.2 0
Q4110	B C E	0.9 0.2 0.2
Q4111	B C E	1.3 –1.6 2.0
Q4112	B C E	170.7 352.0 172.3
Q4113	B C	–1.6 172.3
Q4114	B C	–1.6 –1.6
Q4115	B C E	174.0 351.0 176.8
Q4116	B C	–1.6 176.7
Q4117	B E	4.9 4.9
Q4118	B E	13.1 13.5
Q4119	B C E	14.8 15.6 15.7
Q4120	B C	0.2 13.1
Q4121	B C	199.2 0.2
Q4122	B C	0.7 0.1
Q4123	B C E	3.7 0.3 3.7
Q4124	B C	0.3 3.7
Q4125	B C E	0 14.6 0
Q4201	B C	4.0 0
Q4202	B	0
Q4203	B C	0.1 10.3
Q4204	B C	0.2 10.3
Q4205	B C E	8.8 13.6 8.7
Q4206	B E	8.8 8.7
Q4207	G D	8.7 41.3
Q4209	G D	197.7 41.0
Q4301	B C	0.8 0.3
Q4302	B C	0 14.8

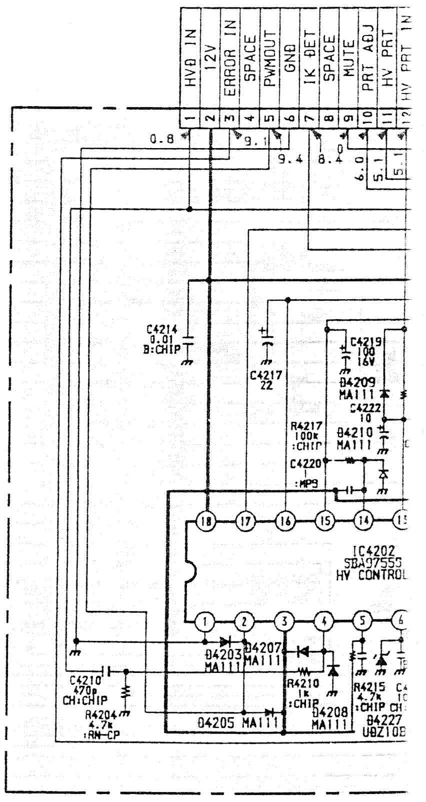

OR)
CN4013 10P :B-TO-B
6.0 1 START
1.5 2 PROTECTOR
3.8 3 DRIVE
4.9 4 OCP
0.9 5 ON/OFF
6 VCC 14V
7 DETECTOR
2.5 8 NC
9 OVP
13.2 10 GND
TO G BOARD CN4009
R4117 39k :RN-CP
R4118 5.6k :RN-CP
C4112 47 25V
C4114 0.01 :PT
R4119 4.7k :CHIP
R4116 22k :CHIP
D4104 DTZ-16A
C4117 0.1 25V B:CHIP
C4115 0.1 25V B:CHIP
Q4105 DTA114G BOOST CONT ON/OFF SW
Q4109 DTA114G PROTECT DET
Q4108 DTC114G PROTECT DET
+14V
B-SS3365<...>-GA.

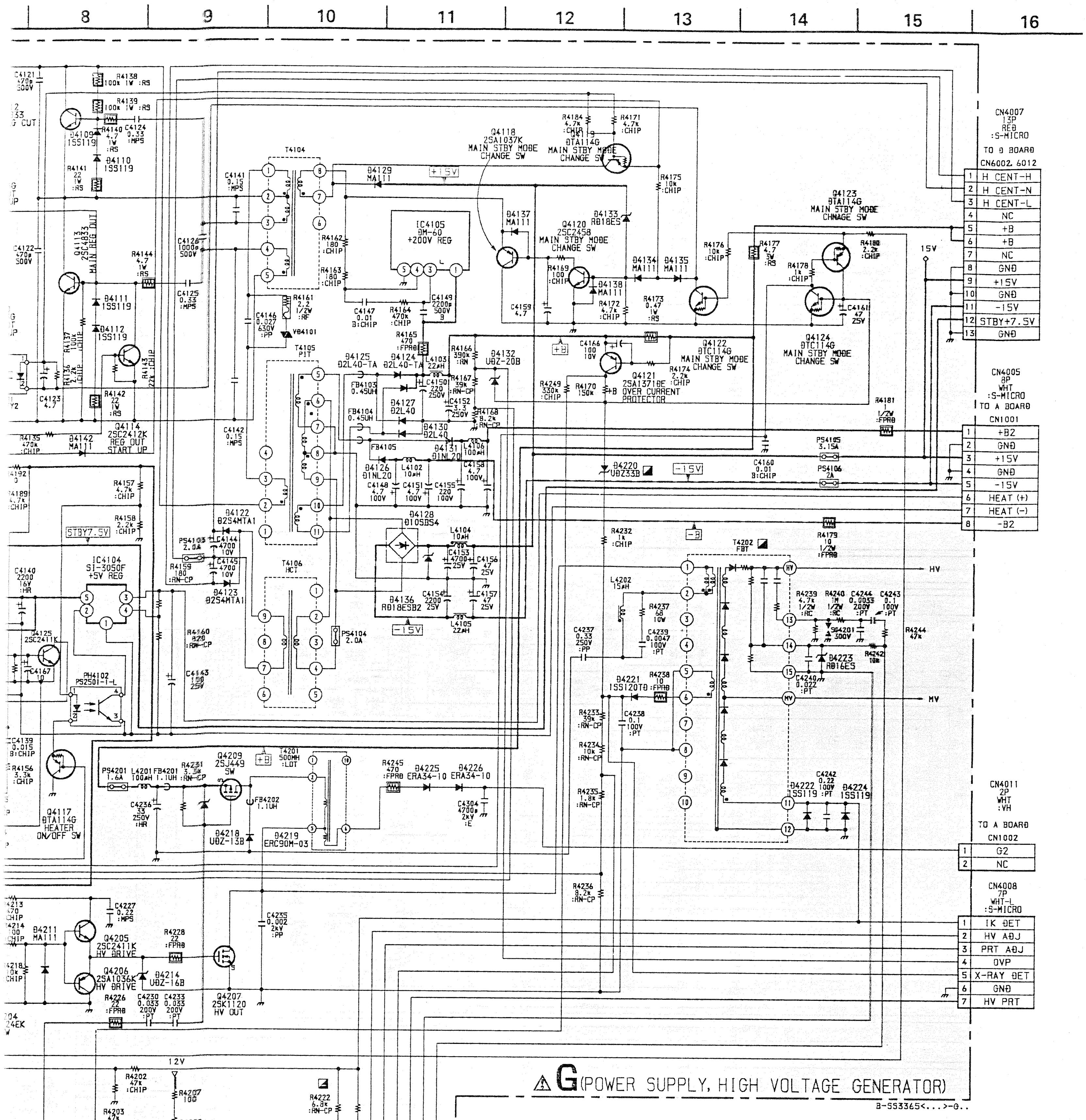
• GA BOARD IC4101 TL494CN


16
15
14
13
12
11
10
9
ERROR AMP 2
REFERENCE REGULATOR
ERROR AMP 1
OSCILLATOR
0.1V
1
2
3
4
5
6
7
8

• GB BOARD IC4202 SBA9755S


GND 1
PWMOUT 2
PVCC 3
HDIN 4
MMCR 5
SAWOUT 6
AGC 7
ERRIN 8
ERRREF 9
18 VCC
17 PROTOUT
16 VREG9
15 VREG6
14 XREF
13 XRAYIN
12 ABLIN
11 PONDET
10 ERROUT
REF 9.0V
REF 6.0V
M. M.
SAW GEN
AGC TYPE
LATCH
START

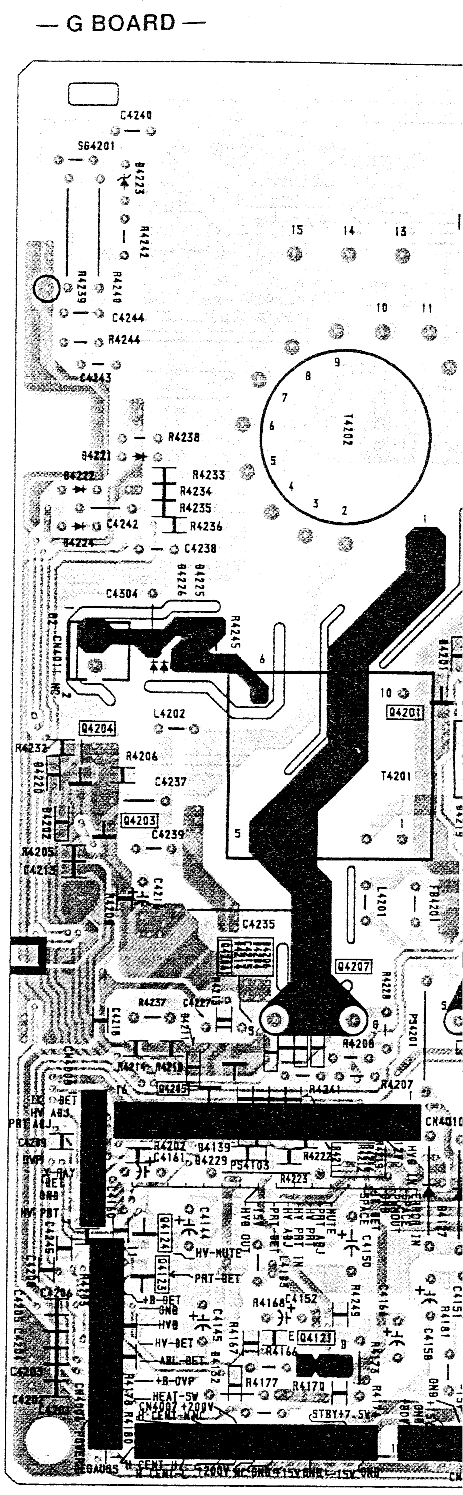

HVD IN
12V
ERROR IN
SPACE
PWMOUT
GND
IK DET
SPACE
MUTE
PRT ADJ
HV PRT
0.8
9.4
8.4
C4214 0.01 B:CHIP
C4217 22
C4219 100 16V
D4209 MA111
D4210 MA111
R4217 100k :CHIP
IC4202 SBA9755S HV CONTROL
C4210 470p CH:CHIP
R4204 4.7k :RN-CP
D4203 MA111
D4207 MA111
D4205 MA111
D4208 MA111
R4215 4.7k :CHIP
R4216 1k :CHIP
D4227 UBZ10E


8
9
10
11
12
13
14
15
16
CN4007
13P
RED
:S-MICRO
TO B BOARD
CN6002, 6012
1 H CENT-H
2 H CENT-N
3 H CENT-L
4 NC
5 +B
6 +B
7 NC
8 GND
9 +15V
10 GND
11 -15V
12 STBY+7.5V
13 GND
CN4005
8P
WHT
:S-MICRO
TO A BOARD
CN1001
1 +B2
2 GND
3 +15V
4 GND
5 -15V
6 HEAT (+)
7 HEAT (-)
8 -B2
HV
MV
CN4011
2P
WHT
:VH
TO A BOARD
CN1002
1 G2
2 NC
CN4008
7P
WHT-L
:S-MICRO
1 IK DET
2 HV ADJ
3 PRT ADJ
4 OVP
5 X-RAY DET
6 GND
7 HV PRT
IC4105
BM-60
+200V REG
IC4104
SI-3050F
+5V REG
T4104
T4105
PIT
T4106
HCT
T4201
500MH
:LOT
T4202
FBT
Q4118
2SA1037K
MAIN STBY MODE
CHANGE SW
Q4119
DTA114G
MAIN STBY MODE
CHANGE SW
Q4120
2SC2458
MAIN STBY MODE
CHANGE SW
Q4121
2SA1371DE
OVER CURRENT
PROTECTOR
Q4122
DTC114G
MAIN STBY MODE
CHANGE SW
Q4123
DTA114G
MAIN STBY MODE
CHNAGE SW
Q4124
DTC114G
MAIN STBY MODE
CHANGE SW
Q4114
2SC2412K
REG OUT
START UP
Q4117
DTA114G
HEATER
ON/OFF SW
Q4205
2SC2411K
HV DRIVE
Q4206
2SA1036K
HV DRIVE
Q4207
2SK1120
HV OUT
Q4209
2SJ449
SW
PH4102
PS2501-1-L
STBY7.5V
+15V
-15V
+B
-B
12V
15V
CN4010
16P
:B-TO-B
TO GB BOARD
CN4012
ERROR IN
SPACE
PWMOUT
GND
IK DET
SPACE
MUTE
PRT ADJ
HV PRT IN
HV PRT
HV ADJ
PRT-DET
15V
HVD OUT

⚠G(POWER SUPPLY, HIGH VOLTAGE GENERATOR)

B-SS3365<...>-G..

— G BOARD —



● G BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC4103	1	2.5
	3	14.6
IC4104	1	0
	2	2.2
	3	6.1
	4	4.9
	5	7.3
IC4105	1	198.9
	3	2.5
	4	10.3
PH4101	1	1.2
	2	0.1
	4	0.2
PH4102	1	5.2
	2	4.9
	4	2.3
PH4103	1	1.0
	2	–0.1
	4	0.2
Q4103	B	3.9
	E	3.3
Q4104	B	3.3
	E	3.6

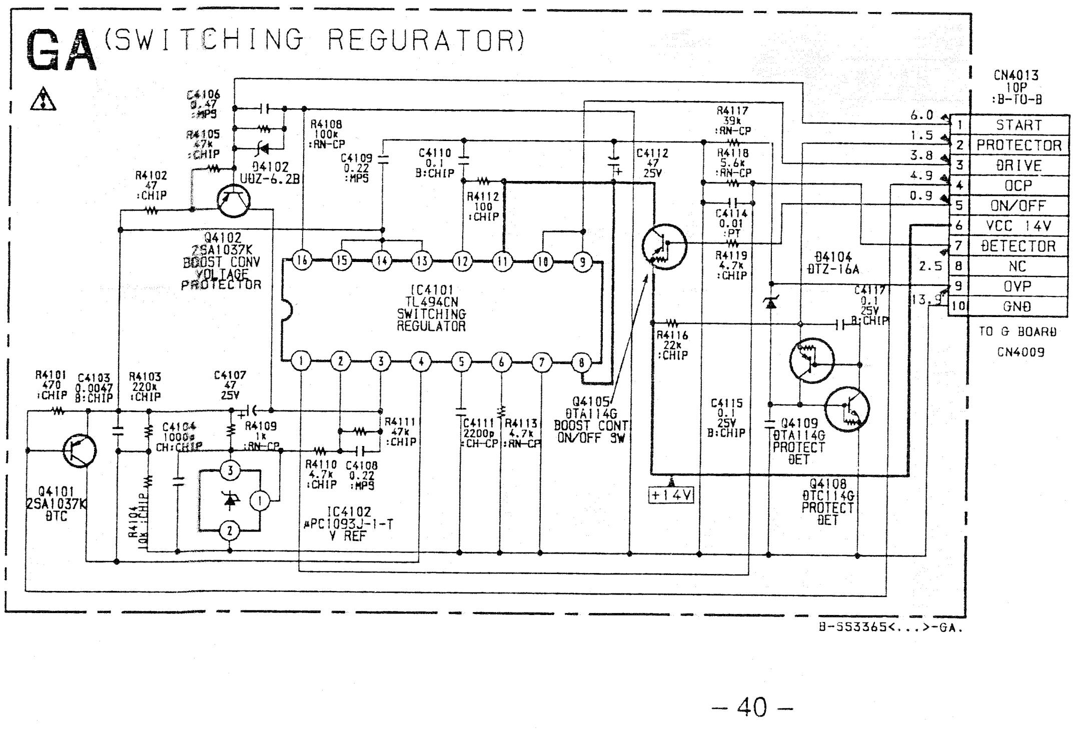
Ref.	Pin No.	Voltage [V]
Q4106	B	0.1
	C	4.9
Q4107	G	3.6
	D	90.2
	S	0
Q4110	B	0.9
	C	0.2
	E	0.2
Q4111	B	1.3
	C	–1.6
	E	2.0
Q4112	B	170.7
	C	352.0
	E	172.3
Q4113	B	–1.6
	C	172.3
Q4114	B	–1.6
	C	–1.6
Q4115	B	174.0
	C	351.0
	E	176.8
Q4116	B	–1.6

Ref.	Pin No.	Voltage [V]
	C	176.7
Q4117	B	4.9
	E	4.9
Q4118	B	13.1
	E	13.5
Q4119	B	14.8
	C	15.6
	E	15.7
Q4120	B	0.2
	C	13.1
Q4121	B	199.2
	C	0.2
Q4122	B	0.7
	C	0.1
Q4123	B	3.7
	C	0.3
	E	3.7
Q4124	B	0.3
	C	3.7
Q4125	B	0
	C	14.6

Ref.	Pin No.	Volta
	E	
Q4201	B	
	C	
Q4202	B	
Q4203	B	
	C	
Q4204	B	
	C	
Q4205	B	
	C	
	E	
Q4206	B	
	E	
Q4207	G	
	D	
Q4209	G	
	D	
Q4301	B	
	C	
Q4302	B	
	C	

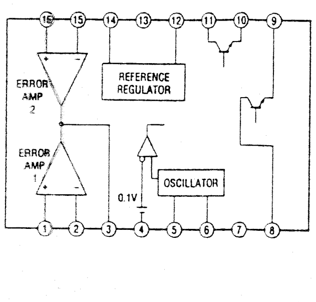
GA(SWITCHING REGURATOR)

⚠

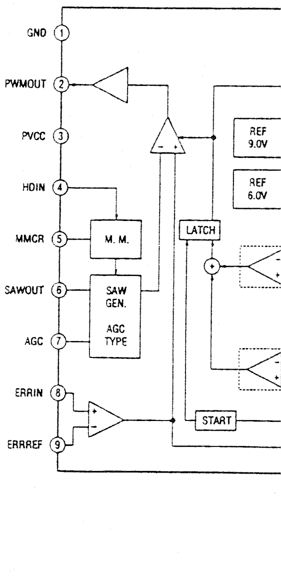

CN4013
10P
:B-TO-B
6.0
1.5
3.8
4.9
0.9
2.5
13.9
1 START
2 PROTECTOR
3 DRIVE
4 OCP
5 ON/OFF
6 VCC 14V
7 DETECTOR
8 NC
9 OVP
10 GND
TO G BOARD
CN4009
IC4101
TL494CN
SWITCHING
REGULATOR
IC4102
μPC1093J-1-T
V REF
Q4101
2SA1037K
BTC
Q4102
2SA1037K
BOOST CONV
VOLTAGE
PROTECTOR
Q4105
DTA114G
BOOST CONT
ON/OFF SW
Q4108
DTC114G
PROTECT
DET
Q4109
DTA114G
PROTECT
DET
+14V

B-SS3365<...>-GA.

• GA BOARD IC4101 TL494CN

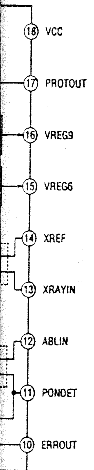

16
15
14
13
12
11
10
9
ERROR AMP 2
REFERENCE REGULATOR
ERROR AMP 1
0.1V
OSCILLATOR
1
2
3
4
5
6
7
8

• GB BOARD IC4202 SE

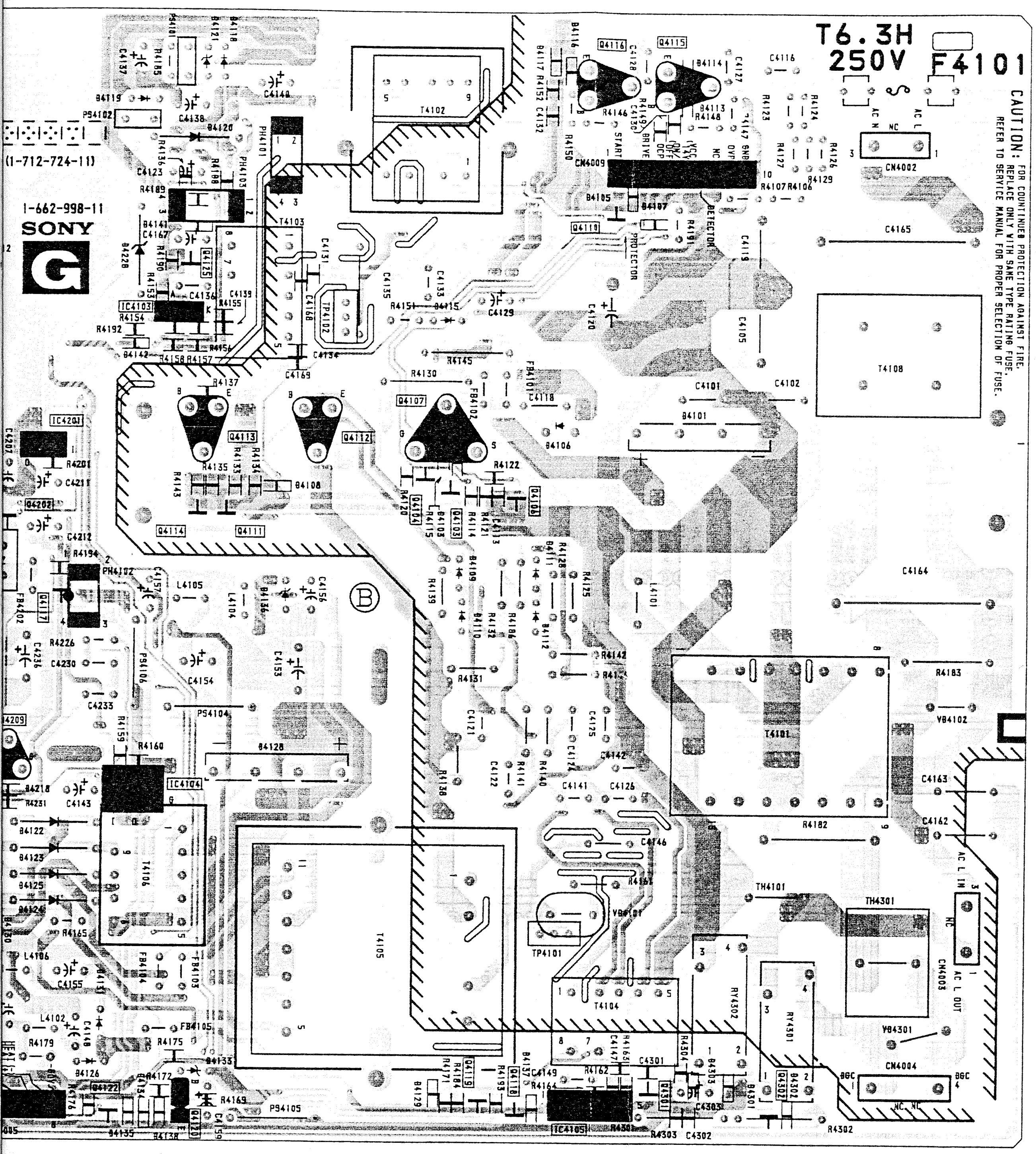

GND 1
PWMOUT 2
PVCC 3
HDIN 4
MMCR 5
SAWOUT 6
AGC 7
ERRIN 8
ERRREF 9
M.M.
SAW GEN.
AGC TYPE
LATCH
REF 9.0V
REF 6.0V
START

ge [V]
0
.0 0
0
.1 .3
.2 .3
.8 3.6 .7
.8 .7
.7 .3
7.7 .0
.8 .3
0 .8

A9755S

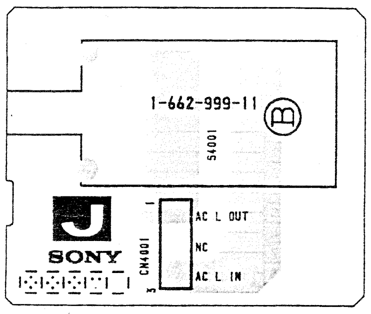


18 VCC
17 PROTOUT
16 VREG8
15 VREG6
14 XREF
13 XRAYIN
12 ABLIN
11 PONDET
10 ERROUT



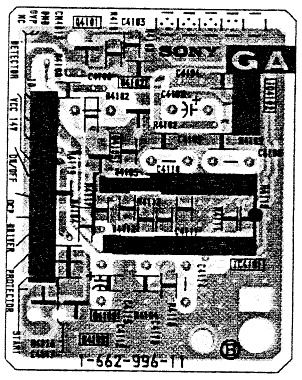
T6.3H
250V
F4101
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE. REPLACE ONLY WITH SAME TYPE RATING FUSE. REFER TO SERVICE MANUAL FOR PROPER SELECTION OF FUSE.
(1-712-724-11)
1-662-998-11
SONY
G
T4102
T4103
T4108
T4101
T4104
T4105
T4106
CN4002
CN4003
CN4004
CN4009
IC4103
IC4104
IC4105
IC4201
AC L IN
AC L OUT
NC
TH4101
TH4301
TP4101

— J BOARD —



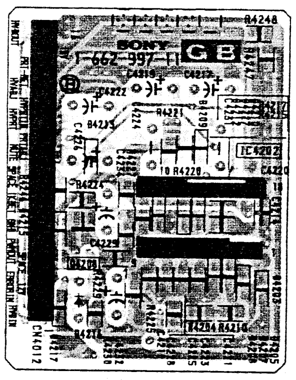
1-662-999-11
B
S4001
J
SONY
CN4001
AC L OUT
NC
AC L IN

— GA BOARD —



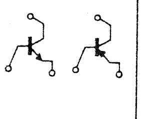
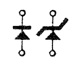
SONY
GA
1-662-996-11
B

— GB BOARD —

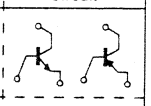
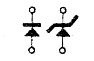


1-662-997-11
SONY
GB
B
IC4202
CN4012

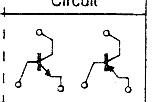
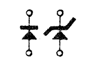
G BOARDTerminal name of semiconductors in silk screen printed circuit

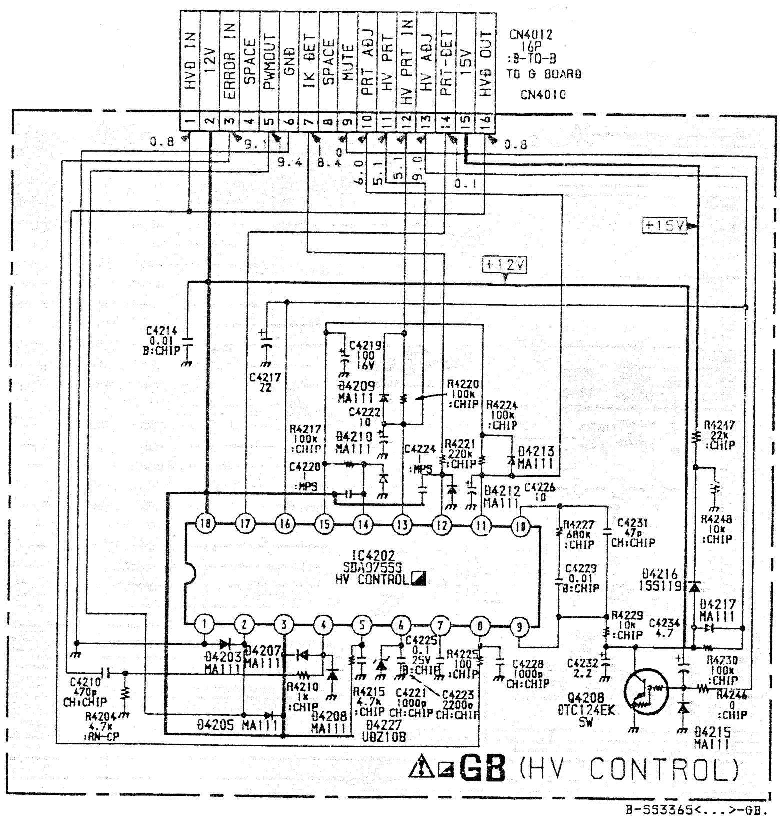
Ref.	Device	Printed symbol	Terminal name	Circuit
Q4103, Q4104, Q4106, Q4110, Q4111, Q4114, Q4117, Q4118, Q4119, Q4122, Q4123, Q4124, Q4125, Q4201, Q4202, Q4203, Q4204, Q4205, Q4206, Q4301, Q4302	Transistor	T	Collector Base T Emitter	
D4105, D4107, D4108, D4116, D4117, D4129, D4132, D4134, D4135, D4137, D4138, D4142, D4201, D4202, D4204, D4206, D4211, D4214, D4218, D4220, D4301, D4302, D4303	Diode		Cathode Anode	

GA BOARDTerminal name of semiconductors in silk screen printed circuit

Ref.	Device	Printed symbol	Terminal name	Circuit
Q4101, Q4102, Q4105, Q4108, Q4109	Transistor	T	Collector Base T Emitter	
D4102, D4104	Diode		Cathode Anode	

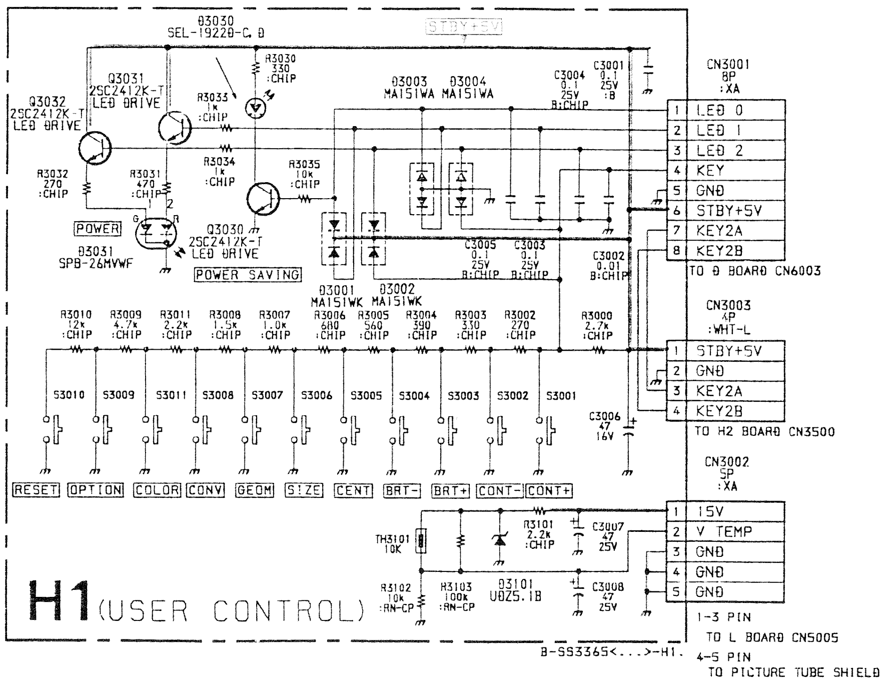
GB BOARDTerminal name of semiconductors in silk screen printed circuit

Ref.	Device	Printed symbol	Terminal name	Circuit
Q4208	Transistor	T	Collector Base T Emitter	
D4203, D4205, D4207, D4208, D4209, D4213, D4215, D4217	Diode		Cathode Anode	



HVD IN
12V
ERROR IN
SPACE
PWMOUT
GND
IK DET
SPACE
MUTE
PRT ADJ
HV PRT IN
HV ADJ
PRT-CET
15V
HVD OUT
CN4012
16P
:B-TO-B
TO G BOARD
CN4010
+15V
+12V
C4214 0.01 B:CHIP
C4217 22
C4219 100 16V
D4209 MA111
C4222 10
R4220 100k :CHIP
R4224 100k :CHIP
R4217 100k :CHIP
D4210 MA111
C4220 :MPS
C4224 :MPS
R4221 220k :CHIP
D4213 MA111
D4212 MA111
C4226 10
R4247 22k :CHIP
R4248 10k :CHIP
R4227 680k :CHIP
C4231 47p CH:CHIP
IC4202 SBX0755S HV CONTROL
C4229 0.01 B:CHIP
D4216 1SS119
D4217 MA111
R4229 10k :CHIP
C4234 4.7
C4210 470p CH:CHIP
D4203 MA111
D4207 MA111
R4210 1k :CHIP
R4215 4.7k :CHIP
C4221 1000p CH:CHIP
C4225 0.1 25V B:CHIP
R4225 100 :CHIP
C4223 2200p CH:CHIP
C4228 1000p CH:CHIP
C4232 2.2
Q4208 DTC124EK SW
R4230 100k :CHIP
R4244 0 :CHIP
D4215 MA111
R4204 4.7k :RN-CP
D4205 MA111
D4208 MA111
D4227 UDZ10B
0.8
9.1
9.4
8.4
0.1
0.8
GB (HV CONTROL)
B-SS336S<...>-GB.

(3) Schematic Diagrams of H1, H2, L and M Boards


D3030
SEL-1922D-C, D
STBY+5V
Q3032
2SC2412K-T
LED DRIVE
Q3031
2SC2412K-T
LED DRIVE
R3033
1k
:CHIP
R3030
330
:CHIP
D3003 D3004
MA151WA MA151WA
C3004
0.1
25V
B:CHIP
C3001
0.1
25V
:B
CN3001
8P
:XA
1 LED 0
2 LED 1
3 LED 2
4 KEY
5 GND
6 STBY+5V
7 KEY2A
8 KEY2B
TO D BOARD CN6003
R3032
270
:CHIP
R3031
470
:CHIP
R3034
1k
:CHIP
R3035
10k
:CHIP
POWER
D3031
SPB-26MVWF
Q3030
2SC2412K-T
LED DRIVE
POWER SAVING
C3005
0.1
25V
B:CHIP
C3003
0.1
25V
B:CHIP
C3002
0.01
B:CHIP
D3001 D3002
MA151WK MA151WK
R3010 12k :CHIP
R3009 4.7k :CHIP
R3011 2.2k :CHIP
R3008 1.5k :CHIP
R3007 1.0k :CHIP
R3006 680 :CHIP
R3005 560 :CHIP
R3004 390 :CHIP
R3003 330 :CHIP
R3002 270 :CHIP
R3000 2.7k :CHIP
CN3003
4P
:WHT-L
1 STBY+5V
2 GND
3 KEY2A
4 KEY2B
TO H2 BOARD CN3500
S3010 S3009 S3011 S3008 S3007 S3006 S3005 S3004 S3003 S3002 S3001
C3006
47
16V
RESET
OPTION
COLOR
CONV
GEOM
SIZE
CENT
BRT-
BRT+
CONT-
CONT+
CN3002
5P
:XA
1 15V
2 V TEMP
3 GND
4 GND
5 GND
TH3101
10K
R3101
2.2k
:CHIP
C3007
47
25V
R3102
10k
:RN-CP
R3103
100k
:RN-CP
D3101
UDZ5.1B
C3008
47
25V
H1 (USER CONTROL)
B-SS3365<...>-H1.
1-3 PIN
TO L BOARD CN5005
4-5 PIN
TO PICTURE TUBE SHIELD

H1 BOARDTerminal name of semiconductors screen printed circuit

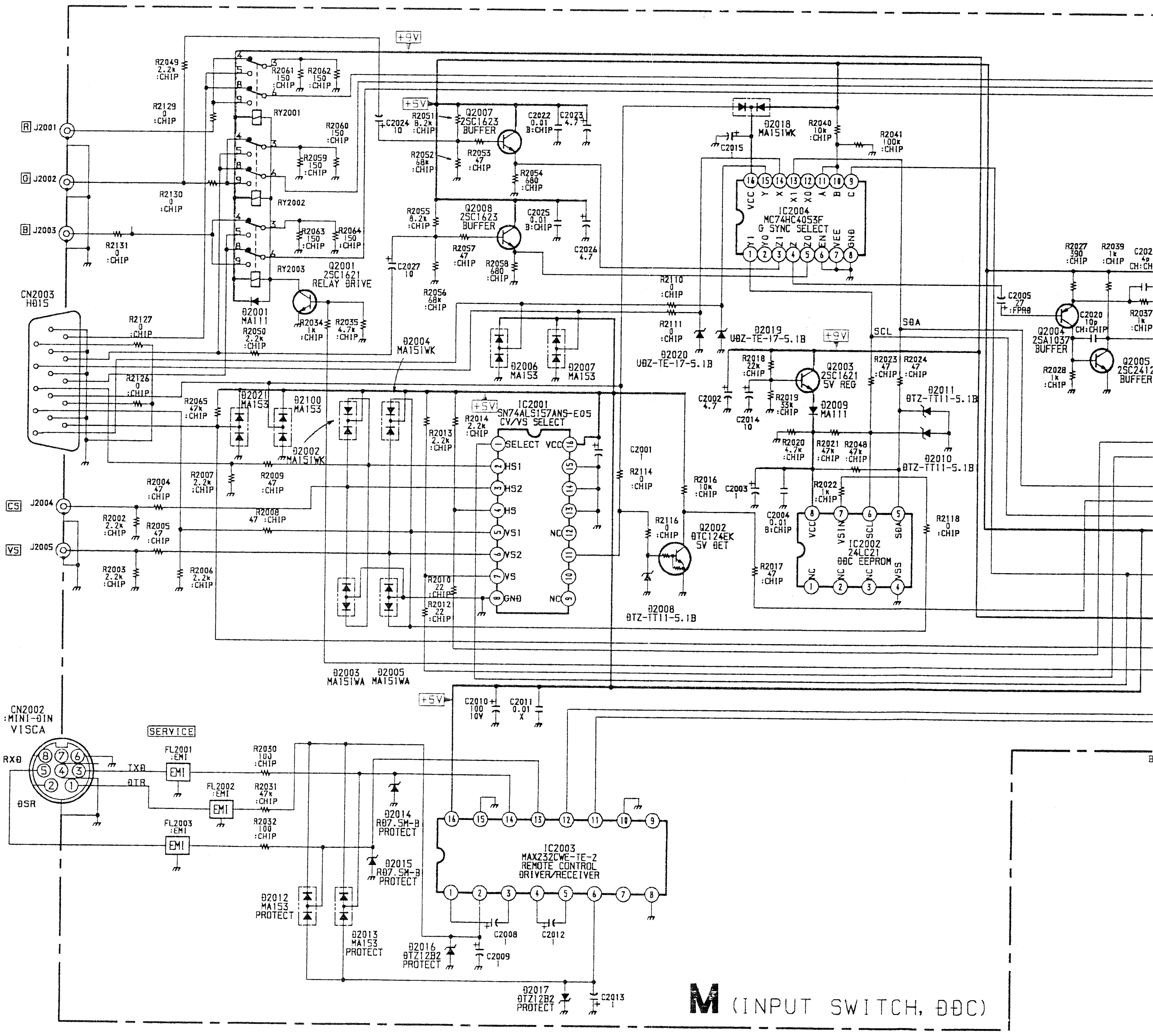
Ref.	Device	Printed symbol	
Q3030, Q3031, Q3032	Transistor	T	
D3101	Diode	⊓	Ca
D3001, D3002	Diode	▬	
D3003, D3004	Diode	▬	C

● H1 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
Q3030	B C	0 3.7
Q3031	B E	0 0.3
Q3032	B E	4.8 4.1

● M BOARD VOLTAGE LIST

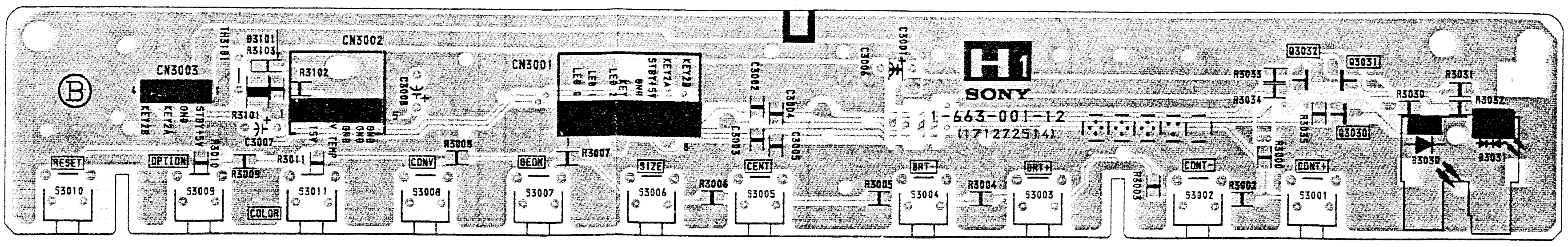
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.
IC2001	1	4.9		5
	2	0.2		6
	3	3.6		11
	4	4.3		12
	5	0.2		13
	6	4.1		14
	7	4.9	IC2004	1
	9	4.5		3
	10	2.5		4
	11	0.3		5
	12	0.1		9
IC2002	5	3.7		10
	6	3.8		11
	7	0.2		13
IC2003	1	6.5		14
	2	7.8		15
	3	2.4	Q2001	B
	4	3.9		C


+9V
R2049
2.2k
:CHIP
R2061 150 :CHIP
R2062 150 :CHIP
R2129
0
:CHIP
RY2001
R J2001
G J2002
B J2003
R2060 150 :CHIP
R2059 150 :CHIP
RY2002
R2130 0 :CHIP
R2131 0 :CHIP
R2063 150 :CHIP
R2064 150 :CHIP
RY2003
Q2001
2SC1621
RELAY DRIVE
D2001
MA111
R2050 2.2k :CHIP
R2034 1k :CHIP
R2035 4.7k :CHIP
CN2003
HD15
R2127 0 :CHIP
R2126 0 :CHIP
+5V
C2024 10
R2051 8.2k :CHIP
Q2007
2SC1623
BUFFER
C2022 0.01 B:CHIP
C2023 4.7
R2052 68k :CHIP
R2053 47 :CHIP
R2054 680 :CHIP
R2055 8.2k :CHIP
Q2008
2SC1623
BUFFER
C2025 0.01 B:CHIP
C2026 4.7
R2057 47 :CHIP
R2058 680 :CHIP
C2027 10
R2056 68k :CHIP
D2004
MA151WK
D2006 MA153
D2007 MA153
R2065 47k :CHIP
D2021 MA153
D2100 MA153
D2002 MA151WK
IC2001
SN74ALS157ANS-E05
CV/VS SELECT
R2013 2.2k :CHIP
R2014 2.2k :CHIP
SELECT VCC
HS1
HS2
HS
VS1
VS2
VS
GND
NC
CS J2004
VS J2005
R2004 47 :CHIP
R2007 2.2k :CHIP
R2009 47 :CHIP
R2008 47 :CHIP
R2002 2.2k :CHIP
R2005 47 :CHIP
R2003 2.2k :CHIP
R2006 2.2k :CHIP
R2010 22 :CHIP
R2012 22 :CHIP
D2003 D2005
MA151WA MA151WA
D2018 MA151WK
C2015
R2040 10k :CHIP
R2041 100k :CHIP
IC2004
MC74HC4053F
G SYNC SELECT
VCC Y X X1 X0 A B C
Y1 Y0 Z1 Z Z0 EN VEE GND
R2110 0 :CHIP
R2111 0 :CHIP
D2019
UDZ-TE-17-5.1B
D2020
UDZ-TE-17-5.1B
+9V
SCL
SDA
R2018 22k :CHIP
Q2003
2SC1621
5V REG
C2002 4.7
C2014 10
R2019 33k :CHIP
D2009 MA111
R2023 47 :CHIP
R2024 47 :CHIP
D2011
DTZ-TT11-5.1B
R2020 4.7k :CHIP
R2021 47k :CHIP
R2048 47k :CHIP
D2010
DTZ-TT11-5.1B
C2001 1
R2114 0 :CHIP
R2016 10k :CHIP
C2003 1
R2022 1k :CHIP
C2004 0.01 B:CHIP
R2116 0 :CHIP
Q2002
DTC124EK
5V DET
IC2002
24LC21
DDC EEPROM
VCC VSIN SCL SDA
NC NC NC VSS
R2017 47 :CHIP
R2118 0 :CHIP
D2008
DTZ-TT11-5.1B
R2027 390 :CHIP
R2039 1k :CHIP
C2005 27 :FPRB
Q2004 2SA1037 BUFFER
C2020 10p CH:CHIP
R2037 1k :CHIP
R2028 1k :CHIP
Q2005 2SC2412 BUFFER
+5V
C2010 100 10V
C2011 0.01 X
CN2002
:MINI-DIN
VISCA
RXD
TXD
DTR
DSR
SERVICE
FL2001 :EMI
FL2002 :EMI
FL2003 :EMI
EMI
R2030 100 :CHIP
R2031 47k :CHIP
R2032 100 :CHIP
D2014
RD7.5M-B
PROTECT
D2015
RD7.5M-B
PROTECT
D2012
MA153
PROTECT
D2013
MA153
PROTECT
IC2003
MAX232CWE-TE-2
REMOTE CONTROL
DRIVER/RECEIVER
C2008 1
C2012 1
D2016
DTZ12B2
PROTECT
C2009 1
D2017
DTZ12B2
PROTECT
C2013 1
M (INPUT SWITCH, DDC)

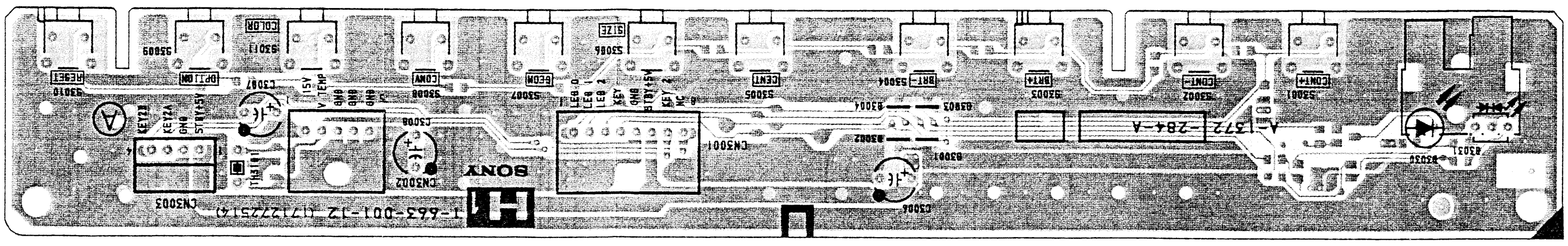
in silk

Terminal name	Circuit
Collector Base Emitter	
thode Anode	
Cathode Anode Anode	
Anode athode Cathode	

— H1 BOARD (Conductor Side) —


H1
SONY
1-663-001-12
(171272251A)
CN3003
CN3002
CN3001
RESET
OPTION
COLOR
CONT
BEON
SIZE
CENT
BRT-
BRT+
CONT-
CONT+
S3010
S3009
S3011
S3008
S3007
S3006
S3005
S3004
S3003
S3002
S3001
B

— H1 BOARD (Component Side) —

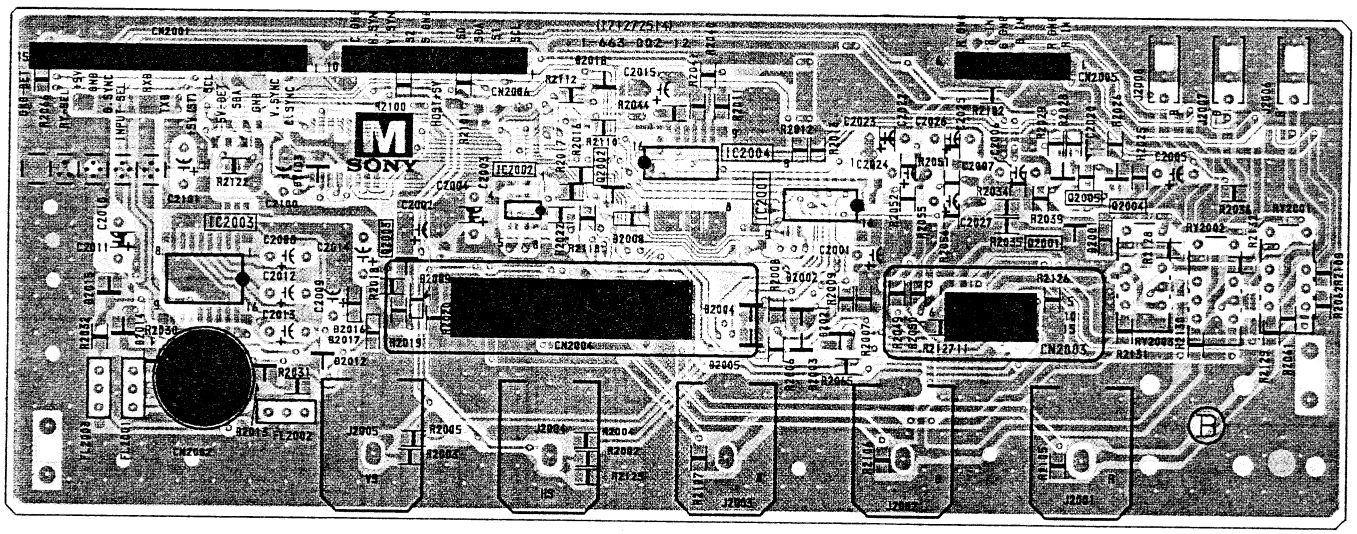

A
SONY
1-663-001-12
A-1372-284-A
CN3003
CN3002
CN3001

: Pattern from the side which enables seeing.

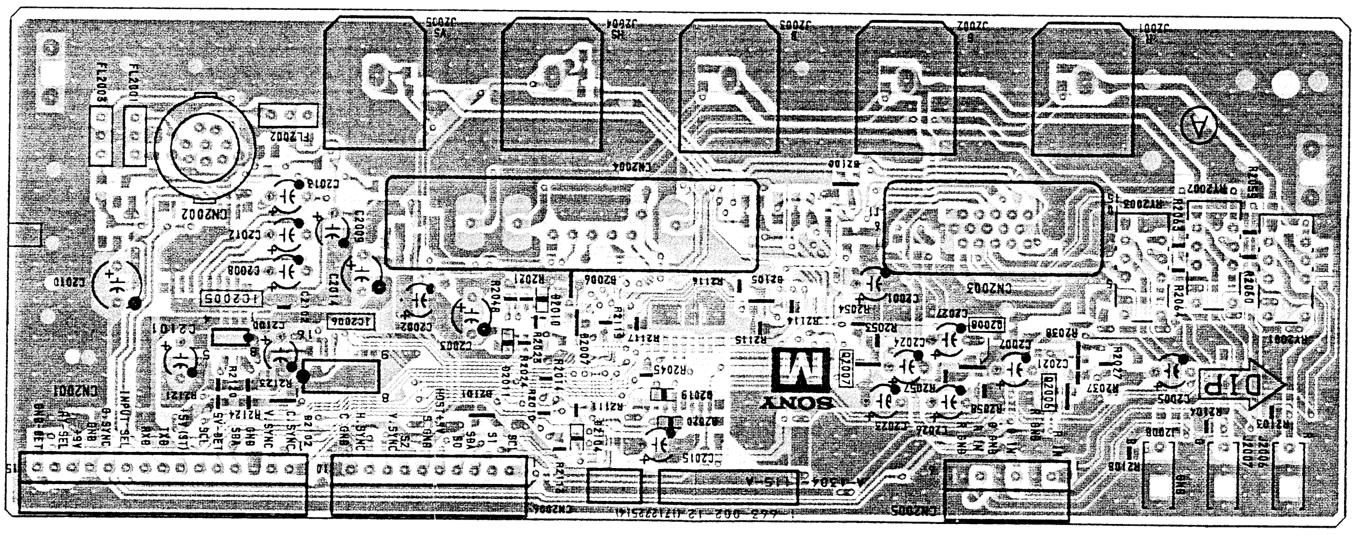
: Pattern of the rear side.

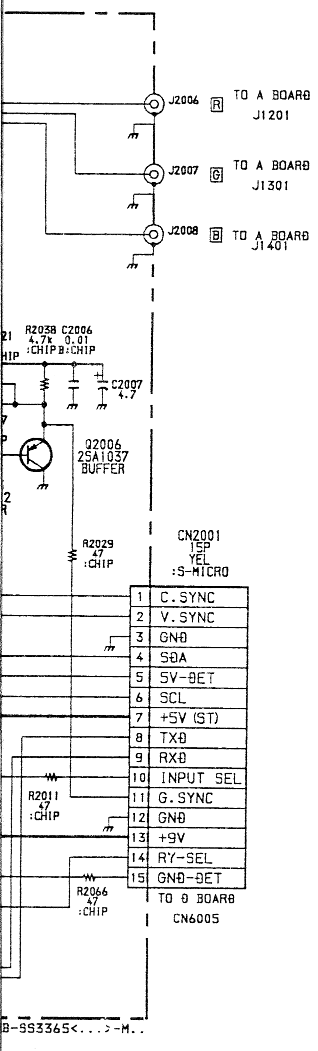
Voltage [V]	Ref.	Pin No.	Voltage [V]
−2.7 −5.7 4.9 4.9 0 −0.8	Q2002	B C	0.3 5.0
	Q2003	B E	5.4 4.7
	Q2004	B C E	3 0.6 3.7
3.8 1.9 1.9 1.9 4.9 4.5 4.5 3.8 3.7 3.7	Q2005	B C	0.6 2.0
	Q2006	B E	2.0 2.6
	Q2007	B E	2.6 1.9
0.8 0.3	Q2008	B E	2.6 1.6

— M BOARD (Conductor Side) —


M
SONY
1-663-002-12
(171272251A)
CN2001
CN2002
CN2003
CN2004
CN2005
IC2001
IC2002
IC2003
IC2004
B

— M BOARD (Component Side) —


M
SONY
A
DIP
CN2001
CN2002
CN2003
CN2004
CN2005


J2006
TO A BOARD J1201
J2007
TO A BOARD J1301
J2008
TO A BOARD J1401
R2038 4.7k :CHIP
C2006 0.01 :CHIP
C2007 4.7
Q2006 2SA1037 BUFFER
R2029 47 :CHIP
CN2001 15P YEL :S-MICRO
1 C.SYNC
2 V.SYNC
3 GND
4 SDA
5 5V-DET
6 SCL
7 +5V (ST)
8 TXD
9 RXD
10 INPUT SEL
11 G.SYNC
12 GND
13 +9V
14 RY-SEL
15 GND-DET
R2011 47 :CHIP
R2066 47 :CHIP
TO B BOARD CN6005
B-SS3365<...>-M..

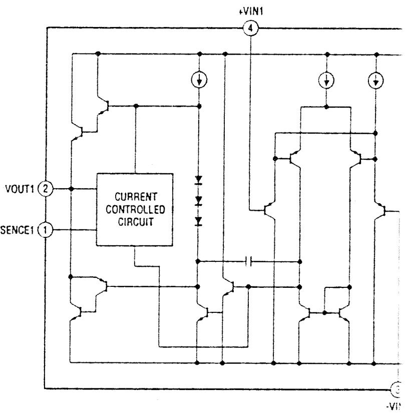
M BOARD Terminal name of semiconductors in silk screen printed circuit

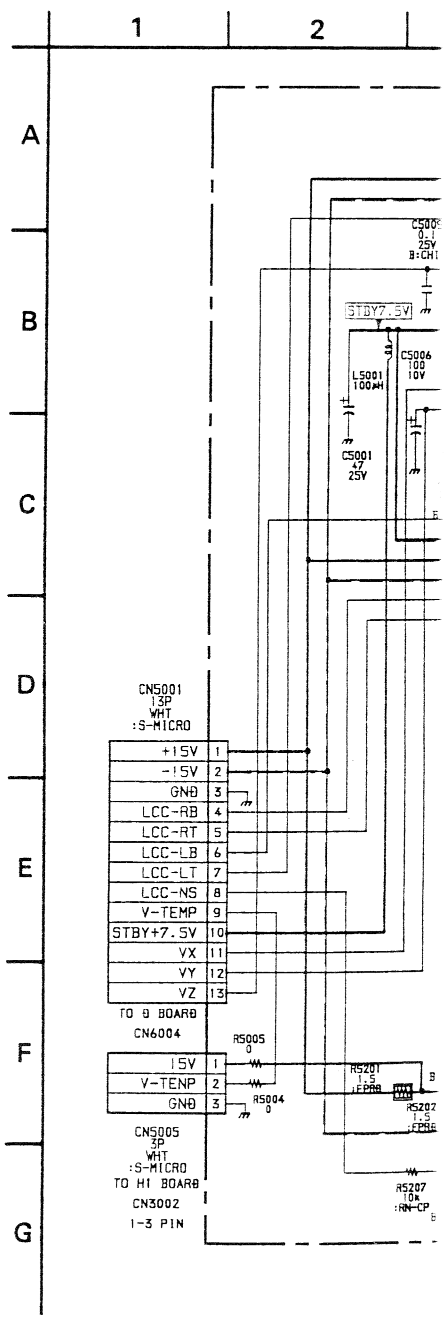
Ref.	Device	Printed symbol	Terminal name	Circuit
Q2001, Q2002, Q2003, Q2004, Q2005	Transistor	T	Collector Base T Emitter	
Q2006, Q2007, Q2008	Transistor	▬	Collector Base Emitter	
D2001, D2008, D2009, D2010, D2011, D2016, D2017, D2019, D2020	Diode		Cathode Anode	
D2012, D2013	Diode	T	Common Anode T Cathode	
D2006, D2007, D2100	Diode	▬	Common Anode Cathode	
D2014, D2015	Diode	T	Cathode Anode T NC	
D2002, D2004, D2018	Diode	T	Cathode Anode T Anode	
D2003, D2005	Diode	T	Anode Anode T Cathode	

● L BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC5101	1 2 3 4 6 7 8 9	0.9 0.9 1.3 1.2 1.3 1.3 −0.8 −0.8
IC5201	1 2 4	1.2 1.2 −4.5
IC5301	1 2 3 4 6 7 8 9	0.3 0.3 1.3 1.3 1.3 1.3 −0.6 −0.6
CN5003	3 4 5	2.5 2.0 4.0
CN5004	3	0

• L BOARD IC5101, 5301 LA65


+VIN1
VOUT1
VSENCE1
CURRENT CONTROLLED CIRCUIT

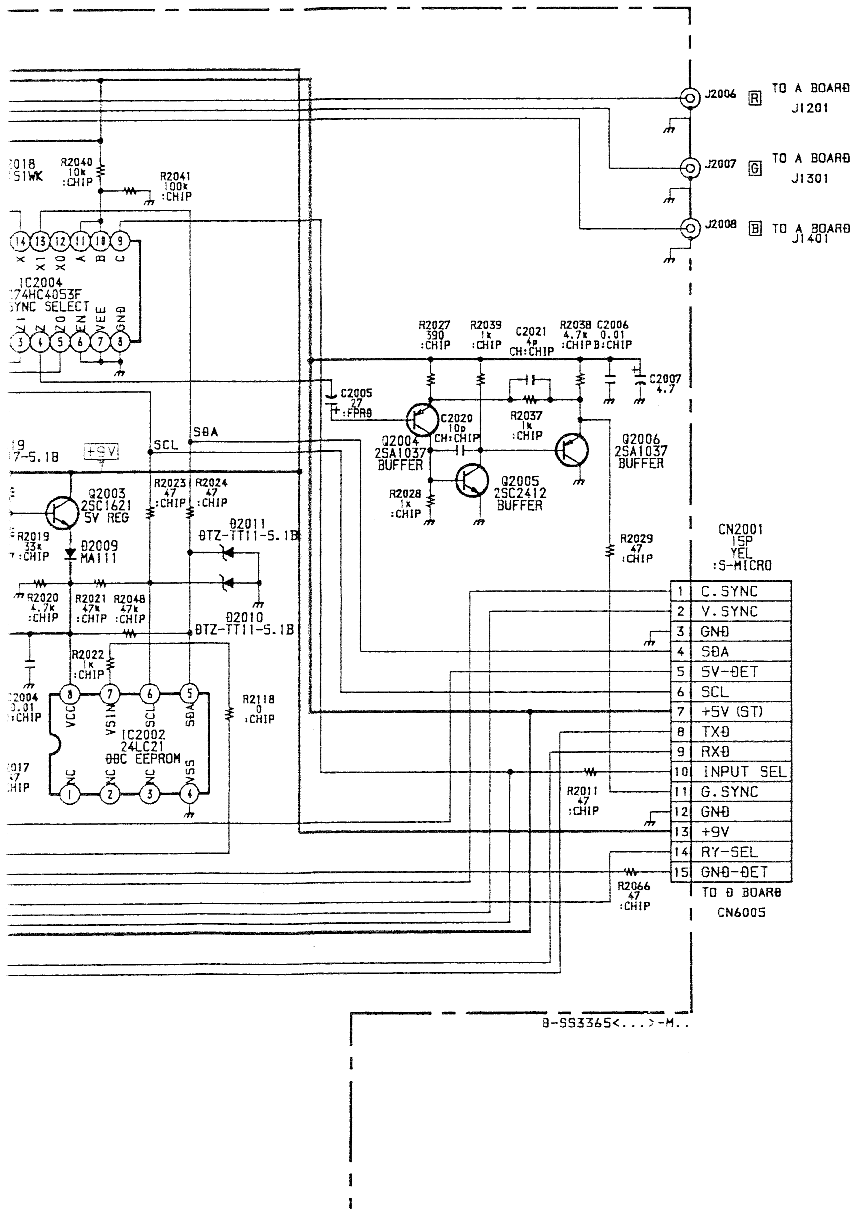

1
2
A
B
C
D
E
F
G
STBY7.5V
L5001 100μH
C5006 100 10V
C5001 47 25V
CN5001 13P WHT :S-MICRO
1 +15V
2 -15V
3 GND
4 LCC-RB
5 LCC-RT
6 LCC-LB
7 LCC-LT
8 LCC-NS
9 V-TEMP
10 STBY+7.5V
11 VX
12 VY
13 VZ
TO B BOARD CN6004
R5005 0
1 15V
2 V-TENP
3 GND
R5004 0
R5201 1.5 :FPRR
R5202 1.5 :FPRR
R5207 10k :RN-CP
CN5005 3P WHT :S-MICRO
TO H1 BOARD CN3002 1-3 PIN

1 BOARDTerminal name of semiconductors in silk creen printed circuit

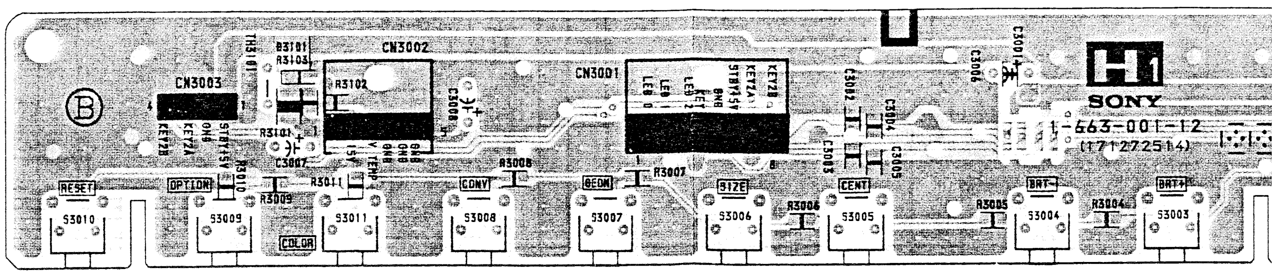
Ref.	Device	Printed symbol	Terminal name	Circuit
3030, Q3031, Q3032	Transistor	T	Collector Base Emitter	
3101	Diode	⊓	Cathode Anode	
3001, D3002	Diode	—	Cathode Anode Anode	
3003, D3004	Diode	—	Anode Cathode Cathode	

● M BOARD VOLTAGE LIST

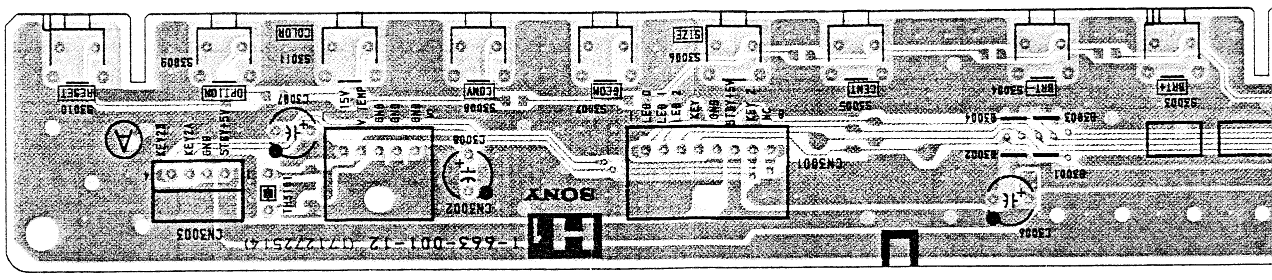
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC2001	1	4.9		5	–2.7	Q2002	B	0.3
	2	0.2		6	–5.7		C	5.0
	3	3.6		11	4.9	Q2003	B	5.4
	4	4.3		12	4.9		E	4.7
	5	0.2		13	0	Q2004	B	3
	6	4.1		14	–0.8		C	0.6
	7	4.9	IC2004	1	3.8		E	3.7
	9	4.5		3	1.9	Q2005	B	0.6
	10	2.5		4	1.9		C	2.0
	11	0.3		5	1.9	Q2006	B	2.0
	12	0.1		9	4.9		E	2.6
IC2002	5	3.7		10	4.5	Q2007	B	2.6
	6	3.8		11	4.5		E	1.9
	7	0.2		13	3.8	Q2008	B	2.6
IC2003	1	6.5		14	3.7		E	1.6
	2	7.8		15	3.7			
	3	2.4	Q2001	B	0.8			
	4	3.9		C	0.3			


J2006 R TO A BOARD J1201
J2007 G TO A BOARD J1301
J2008 B TO A BOARD J1401
R2040 10k :CHIP
R2041 100k :CHIP
IC2004 74HC4053F SYNC SELECT
X X1 X0 A B C
Z1 Z Z0 EN VEE GND
R2027 390 :CHIP
R2039 1k :CHIP
C2021 4p CH:CHIP
R2038 4.7k :CHIP
C2006 0.01 B:CHIP
C2007 4.7
C2005 27 :FPRD
C2020 10p CH:CHIP
R2037 1k :CHIP
Q2004 2SA1037 BUFFER
Q2005 2SC2412 BUFFER
Q2006 2SA1037 BUFFER
R2028 1k :CHIP
SCL
SDA
+9V
Q2003 2SC1621 5V REG
R2023 47 :CHIP
R2024 47 :CHIP
D2011 DTZ-TT11-5.1B
R2019 33k :CHIP
D2009 MA111
R2020 4.7k :CHIP
R2021 47k :CHIP
R2048 47k :CHIP
D2010 DTZ-TT11-5.1B
R2022 1k :CHIP
R2118 0 :CHIP
R2029 47 :CHIP
IC2002 24LC21 DDC EEPROM
VCC VSIN SCL SDA
NC NC NC VSS
R2011 47 :CHIP
R2066 47 :CHIP
CN2001 15P YEL :S-MICRO
1 C.SYNC
2 V.SYNC
3 GND
4 SDA
5 5V-DET
6 SCL
7 +5V (ST)
8 TXD
9 RXD
10 INPUT SEL
11 G.SYNC
12 GND
13 +9V
14 RY-SEL
15 GND-DET
TO D BOARD CN6005
B-SS3365<...>-M..
IPUT SWITCH, DDC)

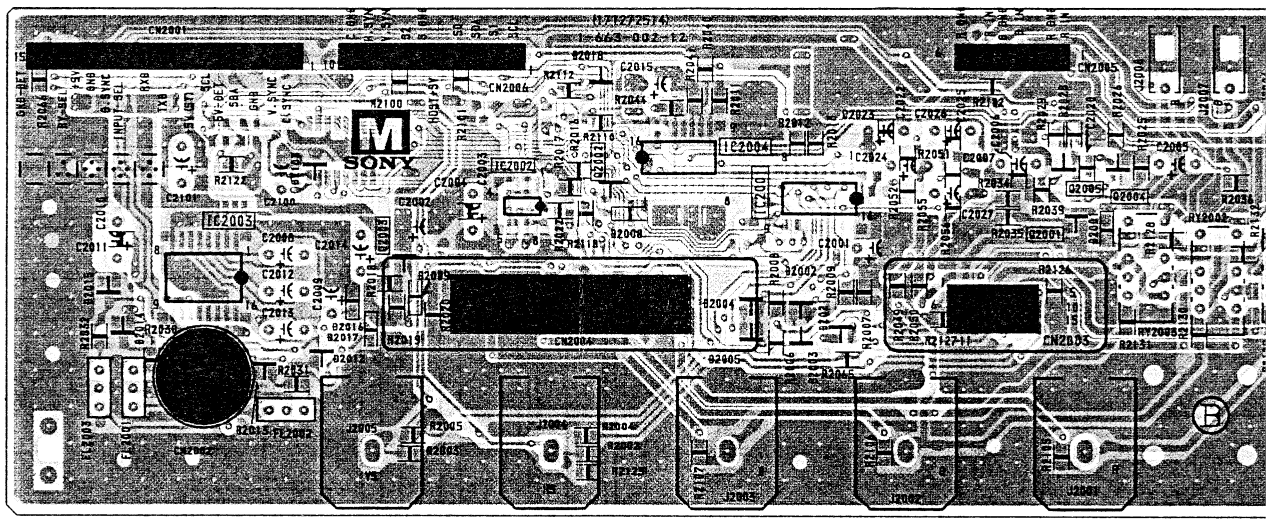
— H1 BOARD (Conductor Side) —


CN3002
CN3003
CN3001
H1
SONY
1-663-001-12
(1712725 14)
RESET
OPTION
COLOR
CONV
DEGM
SIZE
CENT
BRT-
BRT+

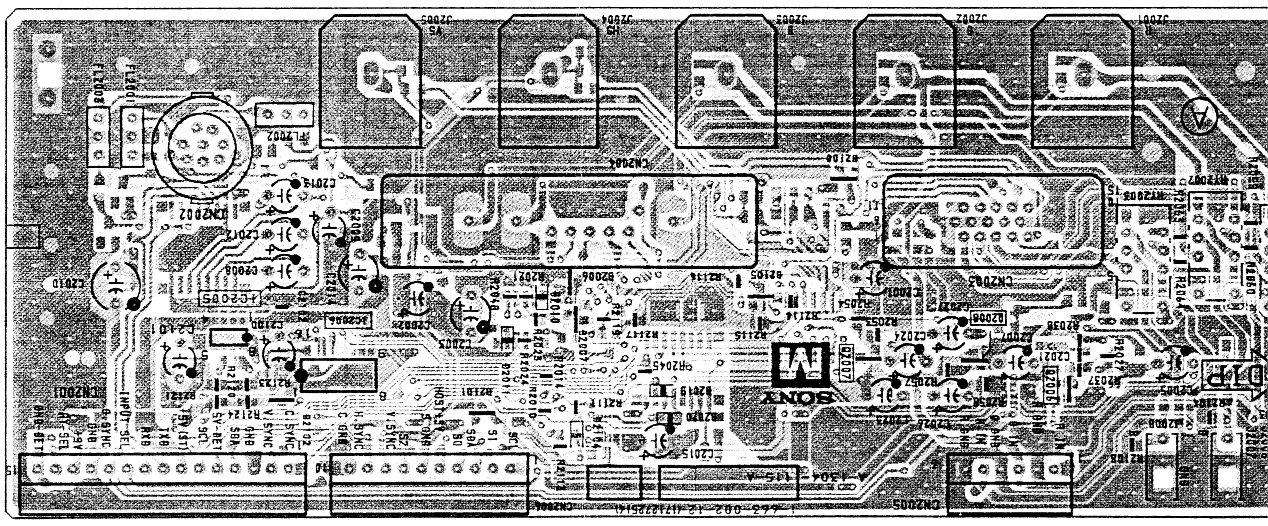
— H1 BOARD (Component Side) —



— M BOARD (Conductor Side) —


CN2001
M
SONY
1-663-002-12
IC2004
IC2003

— M BOARD (Component Side) —



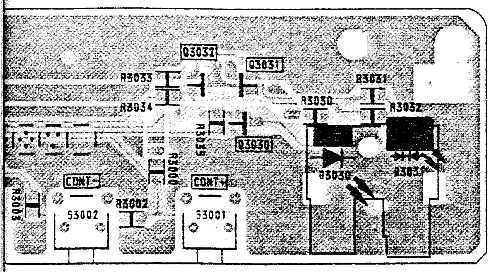
M BOARD Terminal name of semiconductors in silk screen printed circuit

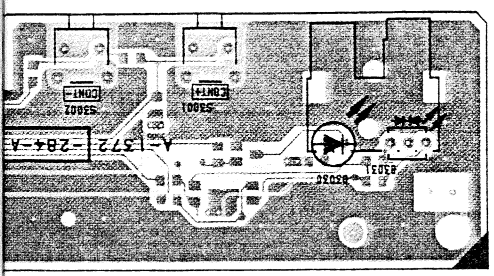
Ref.	Device	Printed symbol	Terminal name	Circuit
Q2001, Q2002, Q2003, Q2004, Q2005	Transistor	T	Collector Base Emitter	
Q2006, Q2007, Q2008	Transistor	—	Collector Base Emitter	
D2001, D2008, D2009, D2010, D2011, D2016, D2017, D2019, D2020	Diode	⊓	Cathode Anode	
D2012, D2013	Diode	T	Common Anode Cathode	
D2006, D2007, D2100	Diode	—	Common Anode Cathode	
D2014, D2015	Diode	T	Cathode Anode NC	
D2002, D2004, D2018	Diode	T	Cathode Anode Anode	
D2003, D2005	Diode	T	Anode Anode Cathode	

● L BOARD VOLTAGE LI

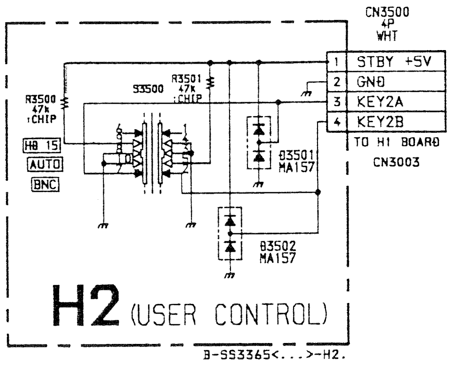
Ref.	Pin No.	Voltag
IC5101	1	0
	2	0
	3	1
	4	1
	6	1
	7	1
	8	–
	9	–
IC5201	1	1
	2	1
	4	–
IC5301	1	0
	2	0
	3	1
	4	1
	6	1
	7	1
	8	–
	9	–
CN5003	3	2
	4	2
	5	4
CN5004	3	

H1 [USER CONTROL] **M** [INPUT SW DDC] **H2** [USER CONTROL] **L** [V.STAT/ROT/LCC HEM SENSOR]

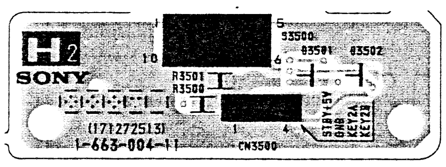

Q3033
Q3031
R3033
R3034
R3030
Q3030
R3032
D3030
CONT-
CONT+
S3002
S3001
R3002


S3002
S3001
D3030

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.


CN3500
4P
WHT
1 STBY +5V
2 GND
3 KEY2A
4 KEY2B
TO H1 BOARD
CN3003
R3500 47k :CHIP
S3500
R3501 47k :CHIP
H8 15
AUTO
BNC
D3501 MA157
D3502 MA157
H2 (USER CONTROL)
B-SS3365<...>-H2.

— H2 BOARD —


H2
SONY
S3500
D3501
D3502
R3501
R3500
1-663-004-11
CN3500

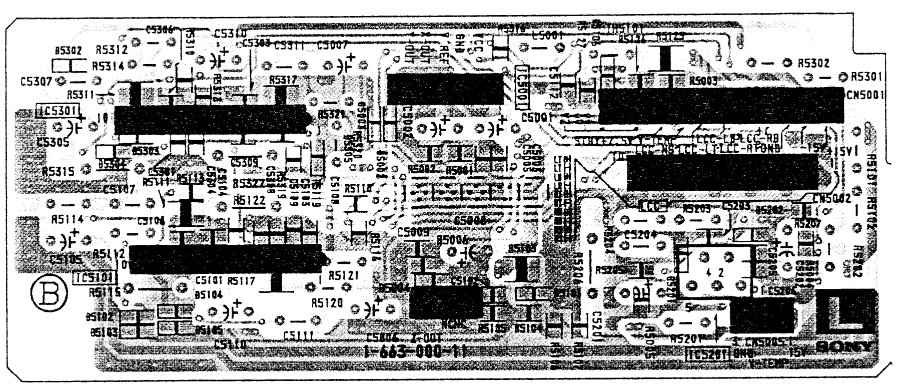
H2 BOARD Terminal name of semiconductors in silk screen printed circuit

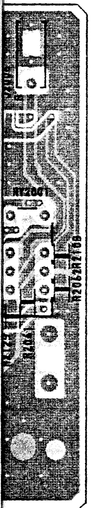
Ref.	Device	Printed symbol	Terminal name	Circuit
D3501, D3502	Diode	T	Common Anode Cathode	

L BOARDTerminal name of semiconductors in silk screen printed circuit

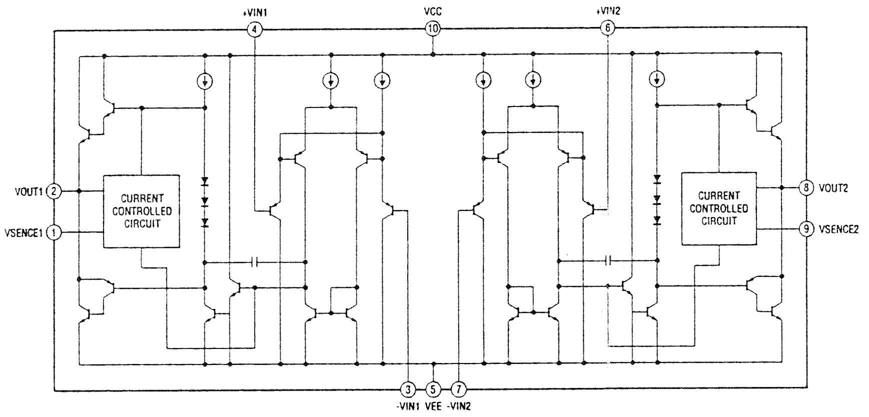
Ref.	Device	Printed symbol	Terminal name	Circuit
D5002, D5003, D5004, D5101, D5102, D5103, D5104, D5105, D5106, D5201, D5202, D5302, D5303, D5304, D5305	Diode		Cathode Anode	

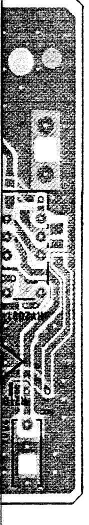
— L BOARD —

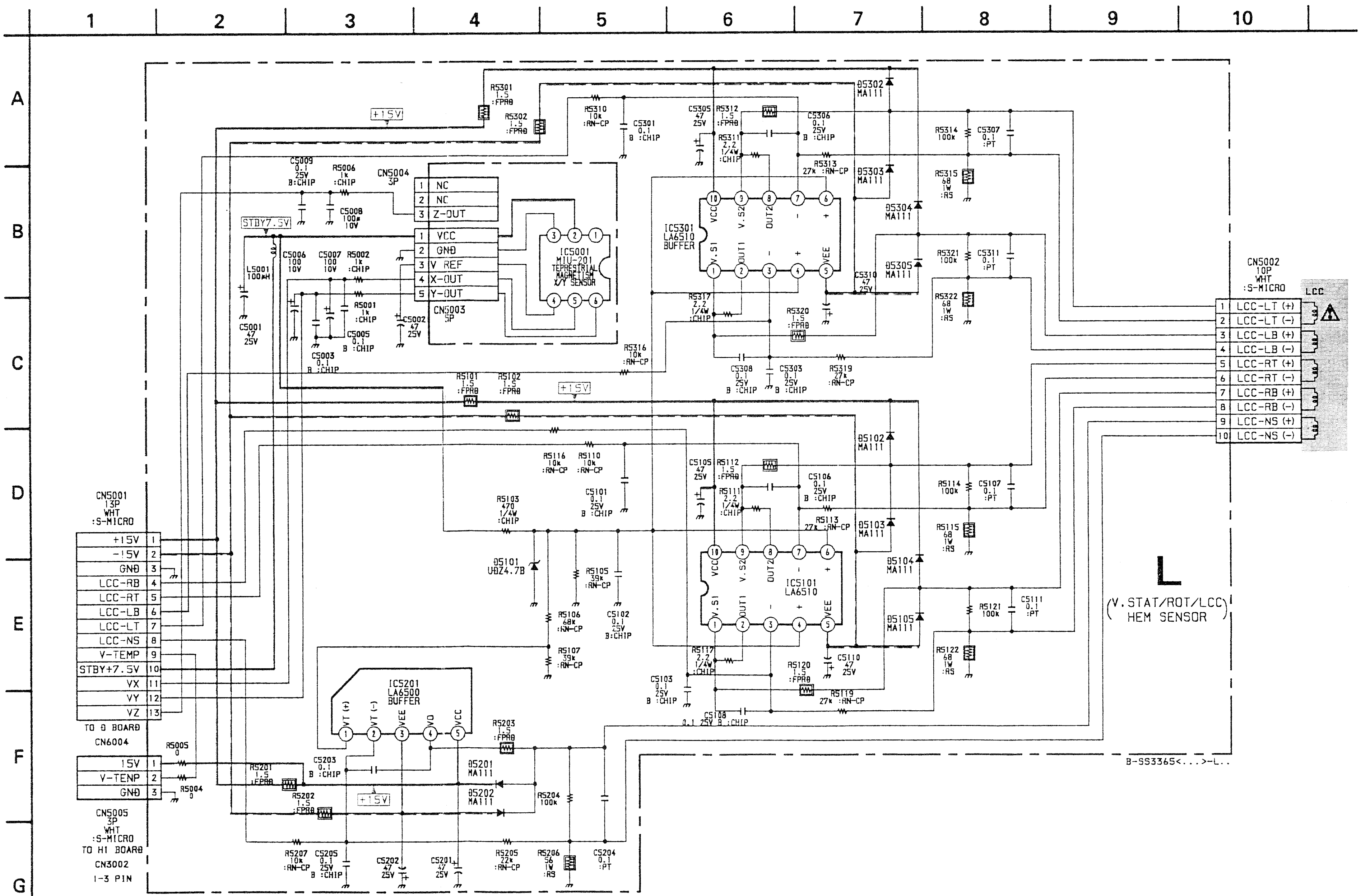

C5306
C5310
R5302
R5312
R5314
C5307
C5311
R5311
IC5301
C5305
R5315
R5114
IC5101
R5115
R5102
R5103
C5101
R5104
R5121
R5120
C5111
C5009
C5204
IC5201
1-663-080-11
B
L
SONY
R5302
R5301
CN5001
CN5002



• L BOARD IC5101, 5301 LA6510


+VIN1
VCC
+VIN2
VOUT1
VSENCE1
CURRENT CONTROLLED CIRCUIT
CURRENT CONTROLLED CIRCUIT
VOUT2
VSENCE2
-VIN1
VEE
-VIN2

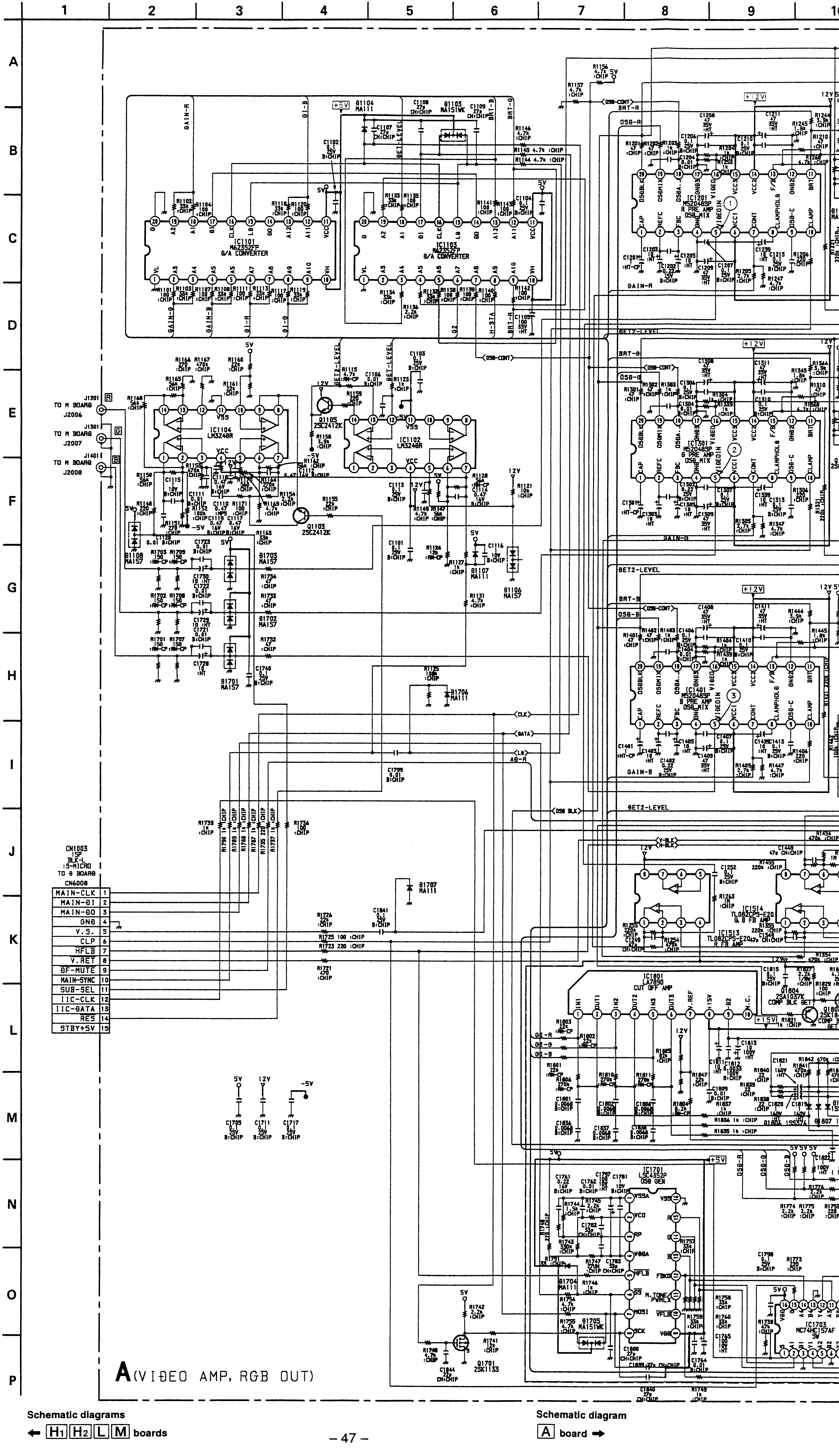


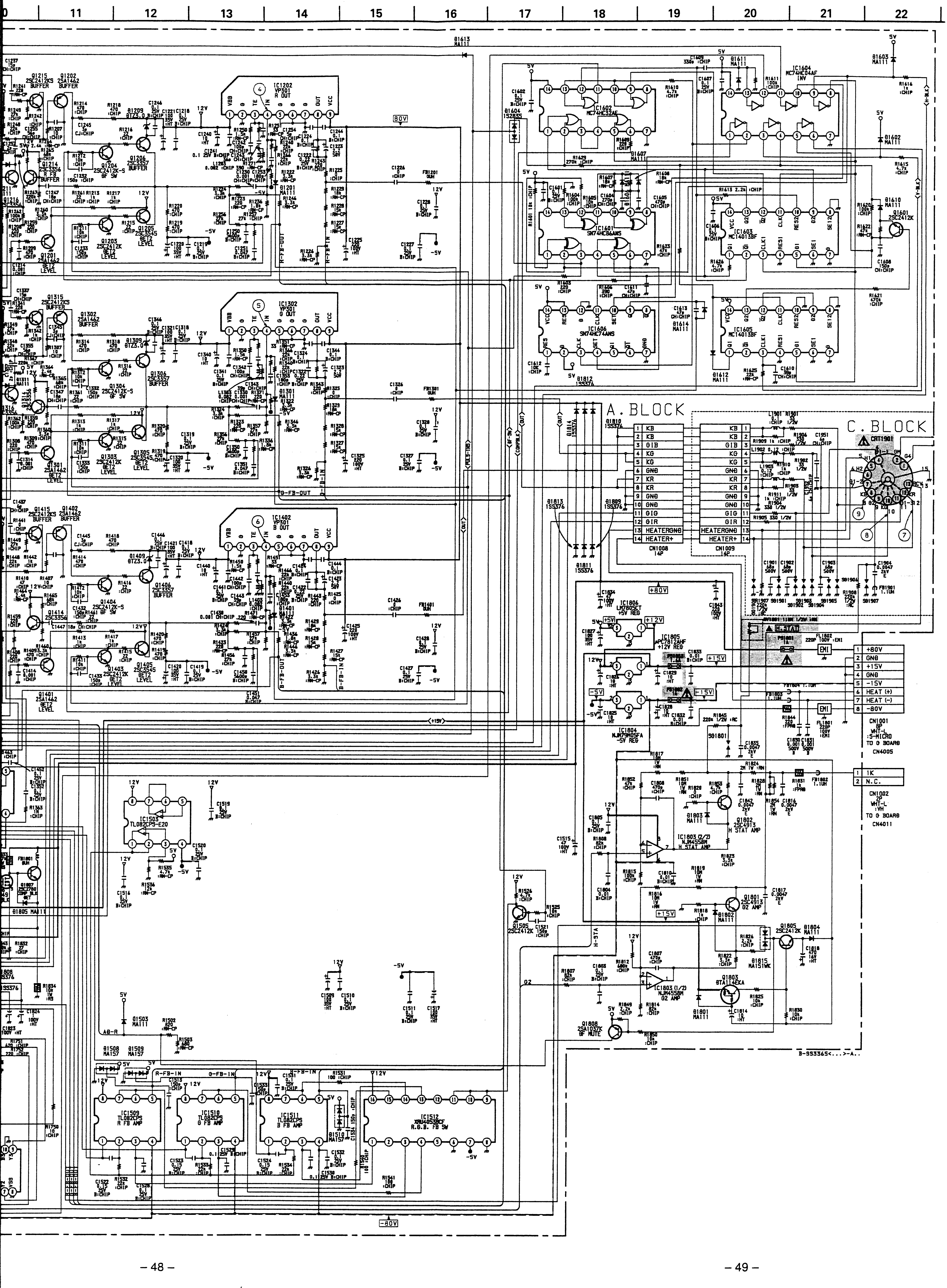

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
CN5001 13P WHT :S-MICRO
+15V 1
-15V 2
GND 3
LCC-RB 4
LCC-RT 5
LCC-LB 6
LCC-LT 7
LCC-NS 8
V-TEMP 9
STBY+7.5V 10
VX 11
VY 12
VZ 13
TO B BOARD CN6004
15V 1
V-TEMP 2
GND 3
CN5005 3P WHT :S-MICRO TO H1 BOARD CN3002 1-3 PIN
CN5004 3P
1 NC
2 NC
3 Z-OUT
1 VCC
2 GND
3 V REF
4 X-OUT
5 Y-OUT
CN5003 5P
IC5001 MJU-201 TERRESTRIAL MAGNETISM X/Y SENSOR
STBY7.5V
+15V
IC5301 LA6510 BUFFER
IC5101 LA6510
IC5201 LA6500 BUFFER
D5101 UDZ4.7B
D5302 MA111
D5303 MA111
D5304 MA111
D5305 MA111
D5102 MA111
D5103 MA111
D5104 MA111
D5105 MA111
D5201 MA111
D5202 MA111
CN5002 10P WHT :S-MICRO
1 LCC-LT (+)
2 LCC-LT (-)
3 LCC-LB (+)
4 LCC-LB (-)
5 LCC-RT (+)
6 LCC-RT (-)
7 LCC-RB (+)
8 LCC-RB (-)
9 LCC-NS (+)
10 LCC-NS (-)
LCC
L (V.STAT/ROT/LCC HEM SENSOR)
B-SS3365<...>-L..

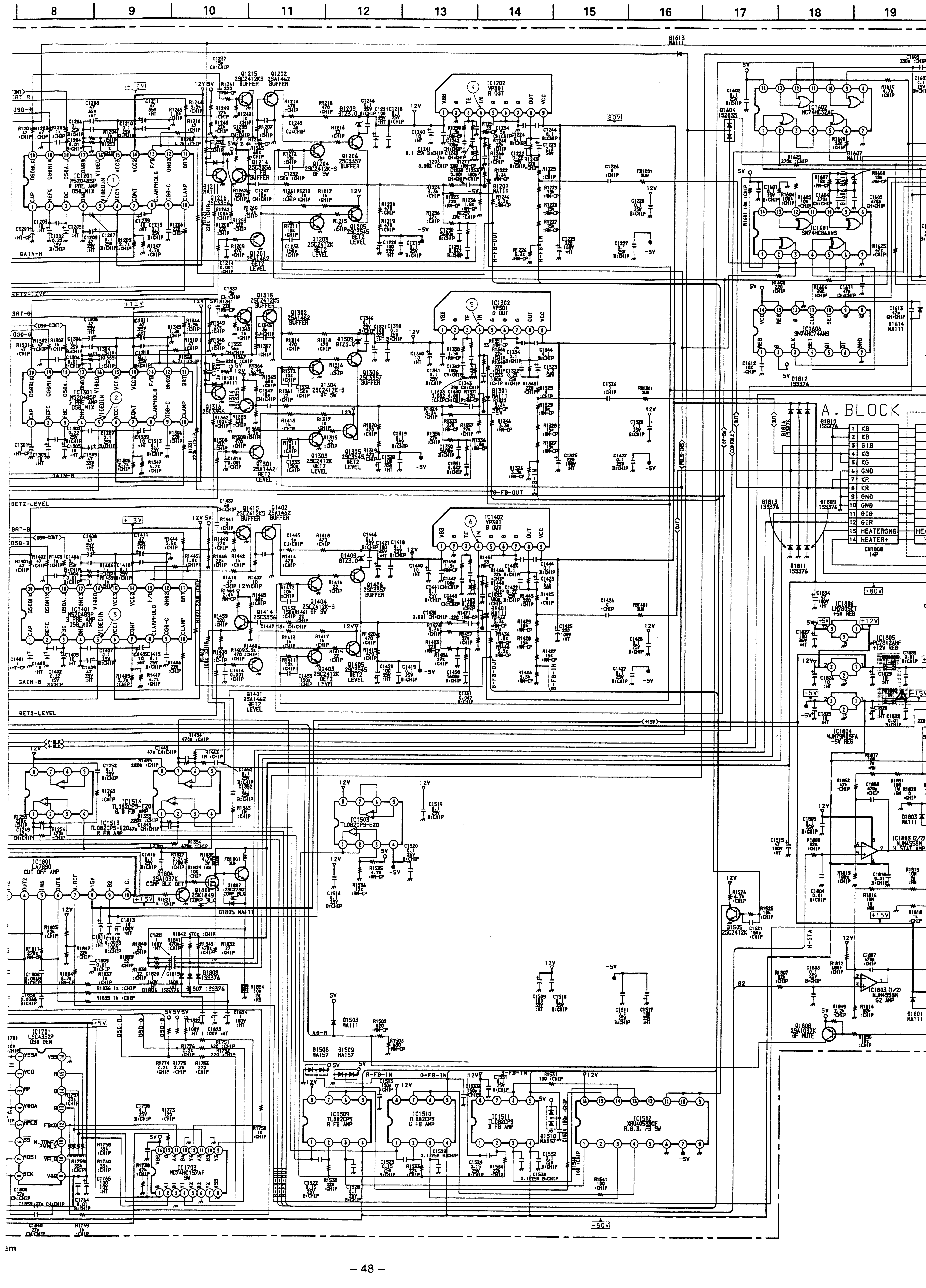
IST

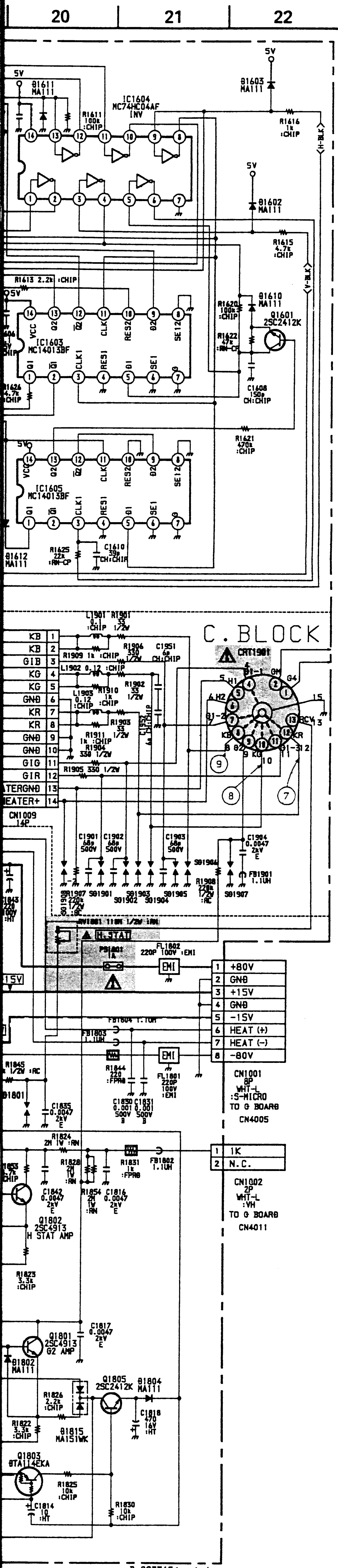
ge [V]
.9
.9
.3
.2
.3
.3
0.8
0.8
.2
.2
4.5
0.3
0.3
.3
.3
.3
.3
0.6
0.6
2.5
2.0
4.0
0

(4) Schematic Diagram of A Board


IC1101 M62352FP D/A CONVERTER
IC1103 M62352FP D/A CONVERTER
IC1104 LM324DR
IC1102 LM324DR
Q1105 2SC2412K
Q1103 2SC2412K
IC1201 M52048SP R PRE AMP OSD MIX
IC1301 M52048SP G PRE AMP OSD MIX
IC1401 M52048SP B PRE AMP OSD MIX
IC1514 TL082CPS-E20 G, B FB AMP
IC1513 TL082CPS-E20 R FB AMP
IC1801 LA7890 CUT OFF AMP
Q1804 2SA1037K COMP BLK DET
IC1701 LSC4352P OSD GEN
IC1703 MC74HC157AF
Q1701 2SK1133
J1201 TO M BOARD J2006
J1301 TO M BOARD J2007
J1401 TO M BOARD J2008
CN1003 15P BLK-L :S-MICRO TO B BOARD CN6008
MAIN-CLK 1
MAIN-D1 2
MAIN-D0 3
GND 4
V.S. 5
CLP 6
HFLB 7
V.RET 8
DF-MUTE 9
MAIN-SYNC 10
SUB-SEL 11
IIC-CLK 12
IIC-DATA 13
RES 14
STBY+5V 15
A (VIDEO AMP, RGB OUT)

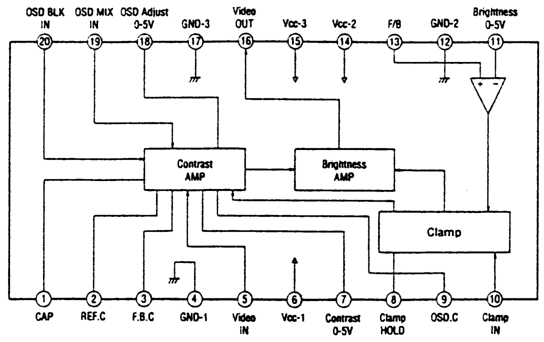

11
12
13
14
15
16
17
18
19
20
21
22
IC1202 VP301 R OUT
IC1302 VP301 G OUT
IC1402 VP301 B OUT
Q1215 2SC2412KS BUFFER
Q1202 2SA1462 BUFFER
Q1206 2SC3357 BUFFER
Q1204 2SC2412K-S BF SW
Q1203 2SC2412K BET2 LEVEL
Q1205 2SC3545 BET2 LEVEL
Q1201 2SA1462 BET2 LEVEL
Q1315 2SC2412KS BUFFER
Q1302 2SA1462 BUFFER
Q1306 2SC3357 BUFFER
Q1304 2SC2412K-S BF SW
Q1303 2SC2412K BET2 LEVEL
Q1305 2SC3545 BET2 LEVEL
Q1301 2SA1462 BET2 LEVEL
Q1415 2SC2412KS BUFFER
Q1402 2SA1462 BUFFER
Q1406 2SC3357 BUFFER
Q1404 2SC2412K-S BF SW
Q1403 2SC2412K BET2 LEVEL
Q1405 2SC3545 BET2 LEVEL
Q1401 2SA1462 BET2 LEVEL
IC1602 MC74HC32AF
IC1604 MC74HC04AF INV
IC1601 SN74HC86ANS
IC1603 MC14013BF
IC1606 SN74HC74ANS
IC1605 MC14013BF
Q1601 2SC2412K
A. BLOCK
C. BLOCK
CRT1901
CN1008 14P
CN1009 14P
KB
GIB
KG
GND
KR
GIG
GIR
HEATERGND
HEATER+
IC1806 LM7805CT +5V REG
IC1805 μPC7812AHF +12V REG
IC1804 NJM79M05FA -5V REG
IC1803 (2/2) NJM4558M H STAT AMP
IC1803 (1/2) NJM4558M G2 AMP
Q1802 2SC4913 H STAT AMP
Q1801 2SC4913 G2 AMP
Q1805 2SC2412K
Q1803 DTA114EKA
Q1808 2SA1037K BF MUTE
Q1505 2SC2412K
IC1503 TL082CPS-E20
IC1509 TL082CPS R FB AMP
IC1510 TL082CPS G FB AMP
IC1511 TL082CPS B FB AMP
IC1512 XRU4053BCF R.G.B. FB SW
H. STAT
+80V
GND
+15V
-15V
HEAT (+)
HEAT (-)
-80V
CN1001 8P WHT-L :S-MICRO TO G BOARD CN4005
1K
N.C.
CN1002 2P WHT-L :VH TO G BOARD CN4011
R-FB-IN
G-FB-IN
B-FB-IN
R-FB-OUT
G-FB-OUT
B-FB-OUT
B-553365<...>-A..


8
9
10
11
12
13
14
15
16
17
18
19
A. BLOCK
IC1201 M52048SP R PRE AMP OSD MIX
IC1301 M52048SP G PRE AMP OSD MIX
IC1401 M52048SP B PRE AMP OSD MIX
IC1202 VP301 R OUT
IC1302 VP301 G OUT
IC1402 VP301 B OUT
Q1215 2SC2412KS BUFFER
Q1202 2SA1462 BUFFER
Q1315 2SC2412KS BUFFER
Q1302 2SA1462 BUFFER
Q1415 2SC2412KS BUFFER
Q1402 2SA1462 BUFFER
Q1206 2SC3357 BUFFER
Q1306 2SC3357 BUFFER
Q1406 2SC3357 BUFFER
Q1204 2SC2412K-S BF SW
Q1304 2SC2412K-S BF SW
Q1404 2SC2412K-S BF SW
Q1203 2SC2412K BET2 LEVEL
Q1303 2SC2412K BET2 LEVEL
Q1403 2SC2412K BET2 LEVEL
Q1205 2SC3545 BET2 LEVEL
Q1305 2SC3545 BET2 LEVEL
Q1405 2SC3545 BET2 LEVEL
Q1201 2SA1462 BET2 LEVEL
Q1301 2SA1462 BET2 LEVEL
Q1401 2SA1462 BET2 LEVEL
Q1214 2SC3356 R FB BUFFER
GAIN-R
GAIN-G
GAIN-B
BET2-LEVEL
80V
-80V
+12V
+15V
+5V
-5V
R-FB-OUT
G-FB-OUT
B-FB-OUT
R-FB-IN
G-FB-IN
B-FB-IN
IC1602 MC74HC32AE
IC1601 SN74HC86ANS
IC1606 SN74HC74ANS
D1613 MA111
D1604 1SS355
D1607 MA111
D1614 MA111
D1812 1SS376
D1810 1SS376
D1813 1SS376
D1809 1SS376
D1811 1SS376
D1814 1SS376
1 KB
2 KB
3 GIB
4 KG
5 KG
6 GND
7 KR
8 KR
9 GND
10 GND
11 GIG
12 GIR
13 HEATERGND
14 HEATER+
CN1008 14P
IC1806 LM7805CT +5V REG
IC1805 μPC7812AHF +12V REG
IC1804 NJM79M05FA -5V REG
IC1803 (2/2) NJM4558M H STAT AMP
IC1803 (1/2) NJM4558M G2 AMP
Q1808 2SA1037K GF MUTE
D1801 MA111
D1803 MA111
IC1514 TL082CPS-E20 G, B FB AMP
IC1513 TL082CPS-E20 R FB AMP
IC1503 TL082CPS-E20
IC1801 LA7890 CUT OFF AMP
Q1804 2SA1037K COMP BLK BET
Q1807 2SC2780 COMP BLK BET
Q1808 2SK1849 COMP BLK BET
D1805 MA111
D1808 1SS376
D1807 1SS376
D1806 1SS376
Q1505 2SC2412K
H-STA
G2
D1503 MA111
D1508 MA157
D1509 MA157
D1510 MA157
AB-R
IC1509 TL082CPS R FB AMP
IC1510 TL082CPS G FB AMP
IC1511 TL082CPS B FB AMP
IC1512 XRU4053BCF R.G.B. FB SW
IC1701 LSC4352P OSD GEN
IC1703 MC74HC157AF SW
OSD-R
OSD-G
OSD-B
VSSA
VCO
RP
VDDA
HFLB
SS
M.TONE PWMLX
MOSI
SCK
FBKG
VFLB
VDD
VSS
V-BLK
H-BLK
OSD-CONT
BRT-R
BRT-G
BRT-B
CONT
OUT
BF-SW
COMPBLK
MULTI-IN
am

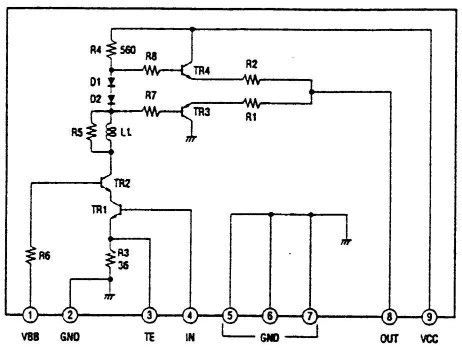

20
21
22
23
5V
D1611 MA111
D1603 MA111
IC1604 MC74HC04AF INV
R1611 100k :CHIP
R1616 1k :CHIP
V-BLK
D1602 MA111
R1615 4.7k :CHIP
R1613 2.2k :CHIP
IC1603 MC14013BF
VCC
Q2
CLK2
RES2
SE12
Q1
CLK1
RES1
SE1
D1610 MA111
Q1601 2SC2412K
R1620 100k :CHIP
R1622 47k :RN-CP
C1608 150p CH:CHIP
R1621 470k :CHIP
IC1605 MC14013BF
R1625 22k :RN-CP
C1610 56p CH:CHIP
D1612 MA111
C.BLOCK
CRT1901
L1901 R1901
R1906
C1951
R1909 1k :CHIP
L1902 0.12 :CHIP
L1903 0.12 :CHIP
R1910 1k :CHIP
R1902 33 1/2W
R1903 33 1/2W
R1911 1k :CHIP
R1904 330 1/2W
R1905 330 1/2W
KB
KB
G1B
KG
KG
GND
KR
KR
GND
GND
G1G
G1R
HEATERGND
HEATER+
CN1009 14P
H1
H2
G1
GM
G4
G2
KB
KG
KR
RCV
C1901 68p 500V
C1902 68p 500V
C1903 68p 500V
C1904 0.0047 2kV
R1907 220k 1/2W
R1908 220k 1/2W
FB1901 1.1UH
S01901
S01902
S01903
S01904
S01905
S01907
H.STAT
PS1801
FL1802 220P 100V :EMI
EMI
+80V
GND
+15V
GND
-15V
HEAT (+)
HEAT (-)
-80V
15V
FB1803 1.1UH
FB1804 1.1UH
R1845
D1801
C1835 0.0047
R1844 22k :FPRB
FL1801 220P 100V :EMI
C1850 C1831 0.001 0.001 500V 500V
CN1001 8P WHT-L :S-MICRO TO G BOARD CN4005
R1824 2M 1W :RN
R1828
R1831 1k :FPRB
FB1802 1.1UH
1K
N.C.
CN1002 2P WHT-L :VH TO G BOARD CN4011
C1842 0.0047 2kV
R1854 2M 1W :RN
C1816 0.0047 2kV
Q1802 2SC4913 H STAT AMP
R1823 3.3k :CHIP
Q1801 2SC4913 G2 AMP
C1817 0.0047 2kV
D1802 MA111
Q1805 2SC2412K
D1804 MA111
R1826 2.2k :CHIP
C1818 470 16V :HT
R1822 3.3k :CHIP
D1815 MA151WK
Q1803 DTA114EKA
R1825 10k :CHIP
C1814 10 :HT
R1830 10k :CHIP
B-593365<...>-A..

- 49 -

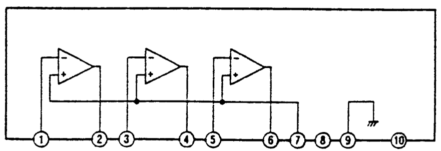
• **A BOARD IC1201, 1301, 1401 M52048SP**

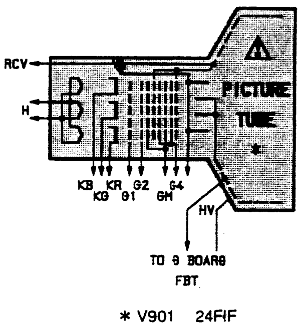

OSD BLK IN
OSD MIX IN
OSD Adjust 0-5V
GND-3
Video OUT
Vcc-3
Vcc-2
F/B
GND-2
Brightness 0-5V
20
19
18
17
16
15
14
13
12
11
Contrast AMP
Brightness AMP
Clamp
1
2
3
4
5
6
7
8
9
10
CAP
REF.C
F.B.C
GND-1
Video IN
Vcc-1
Contrast 0-5V
Clamp HOLD
OSD.C
Clamp IN

• **A BOARD IC1202, 1302, 1402 VP301**


R4 560
R8
TR4
R2
D1
D2
R7
TR3
R1
R5
L1
TR2
TR1
R6
R3 36
1
2
3
4
5
6
7
8
9
VBB
GND
TE
IN
GND
OUT
VCC

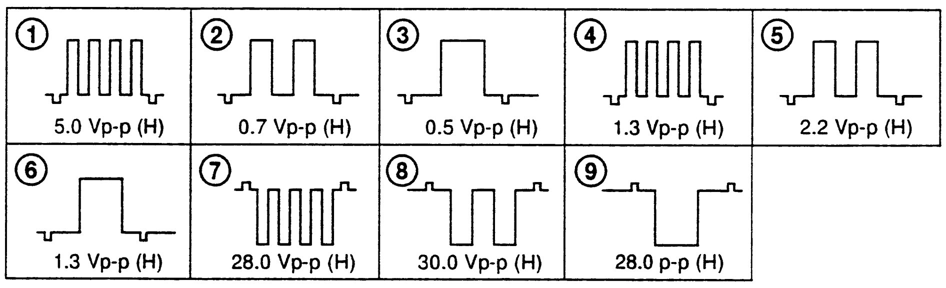
• **A BOARD IC1801 LA7890**


1
2
3
4
5
6
7
8
9
10
Vcc
GND
NC


RCV
H
PICTURE TUBE
*
KB
KR
G2
G4
KG
G1
GM
HV
TO G BOARD FBT

* V901 24FIF

● **A BOARD WAVEFORMS**

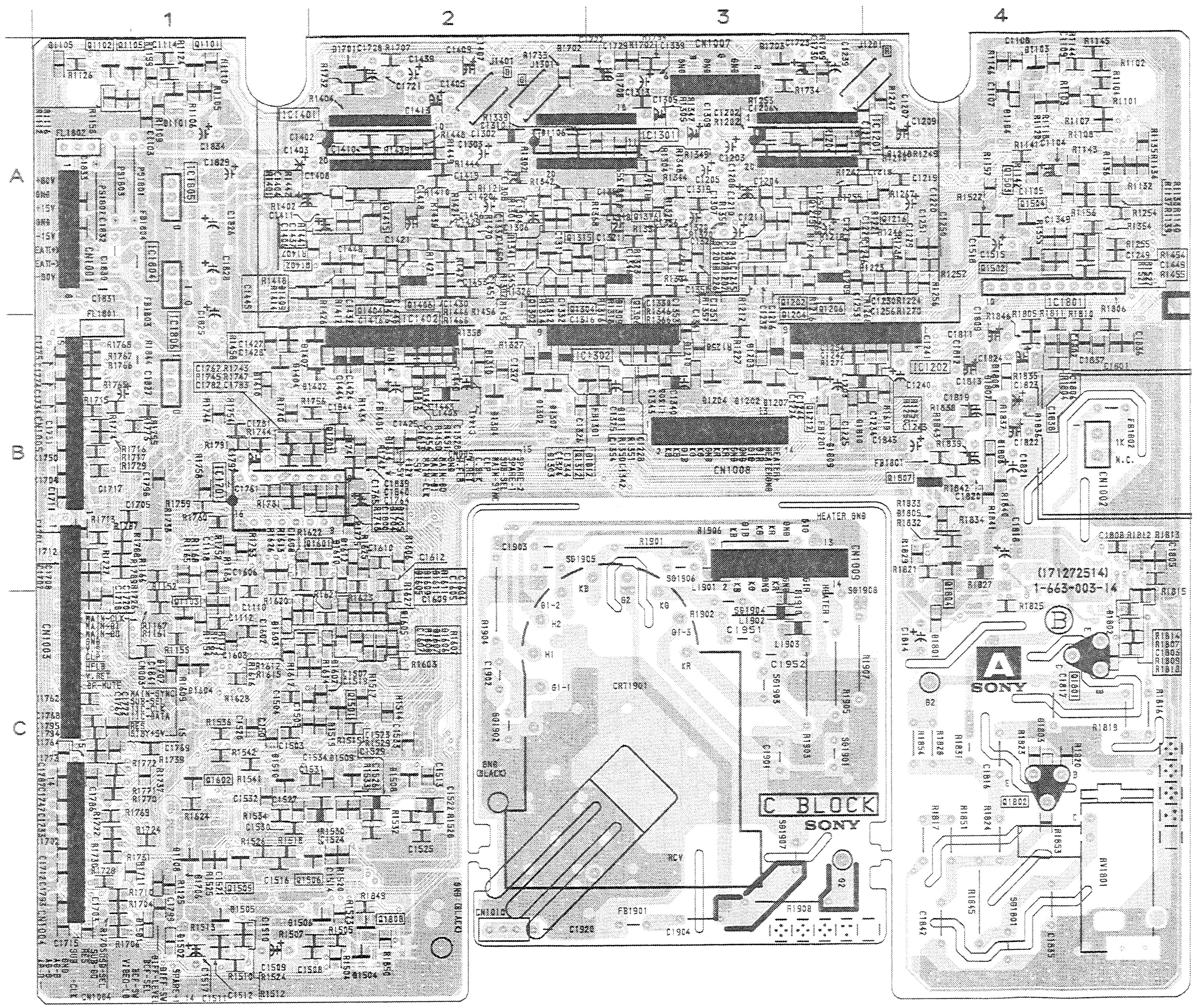


● **A BOARD VOLTAGE LIST**

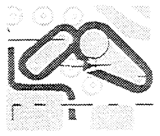
Ref.	Pin No.	Voltage [V]
IC1101	2	3.3
	3	1.7
	4	3.6
	5	1.7
	6	1.8
	7	1.7
	8	3.0
	9	5.0
	12	2.1
	13	3.4
	15	0
	16	4.7
	17	1.6
	18	3.4
	19	3.4
IC1102	5	1.1
	6	1.1
	7	2.6
	8	10.8
	9	0.2
	10	0.2
	12	3.3
	13	3.3
	14	1.5
IC1103	2	4.4
	3	3.4
	5	3.3
	6	3.6
	7	1.5
	8	3.1
	9	2.2
	12	2.2
	13	2.2
	14	0.4
	15	0
	16	4.7
	17	0.3
	18	3.3
	19	3.4
IC1104	1	2.9
	2	0
	3	0
	5	2.4
	6	2.4
	7	4.3
	8	2.5
	9	2.5
	10	2.5
	12	0
	13	0
	14	1.4
IC1201	1	4.4
	2	4.4
	3	4.5
	5	2.9
	7	1.8
	8	4.0
	9	1.4
	10	0.7
	11	2.2
	13	3.4
	16	3.3
	18	1.6
	19	0
	20	0
IC1202	3	1.6
	4	2.3
	8	54.4
IC1301	1	4.5
	2	4.5
	3	4.5
	5	2.8
	7	1.7
	8	4.0
	9	1.4
	10	0.7
	11	2.2
	13	3.3
	16	3.2
	18	1.6
	19	0
	20	0
IC1302	3	1.5
	4	2.2
	8	55.9
IC1401	1	4.4
	2	4.4
	3	4.4
	5	2.8
	7	1.9
	8	4.1
	9	1.3
	10	0.7
	11	2.2
	13	3.4
	16	3.4
	18	1.6
	19	0
	20	0
IC1402	3	1.6
	4	2.3
	8	53.9
IC1503	1	3.6
	2	3.6
	3	3.6
	5	0.2
	6	–3.4
	7	–3.4
IC1509	1	–0.7
	2	3.6
	3	3.6
	5	3.5
	6	3.5
	7	3.5
IC1510	1	–0.6
	2	3.6
	3	3.6
	5	3.6
	6	3.6
	7	3.6
IC1511	1	–0.6
	2	3.6
	3	3.6
	5	3.5
	6	3.5
	7	3.5
IC1512	1	3.6
	2	3.5
	3	3.6
	4	3.6
	5	3.6
	9	0
	10	0
	11	0
	12	3.5
	13	3.6
	14	3.5
	15	3.5
IC1513	1	–2,2
	2	–0.7
	3	–0.7
IC1514	1	2.1
	2	–0.7
	3	–0.7
	5	–0.7
	6	–0.8
	7	–2.3
IC1601	1	5.0
	2	0
	3	5.0
	4	0.1
	5	0.1
	6	0
	8	0
	9	0
	10	0
	11	0
	12	0
	13	0
IC1602	1	0.1
	2	0.1
	3	0.1
	4	0.1
	5	0.3
	6	0.4
	8	5.0
	9	5.0
	10	5.0
	11	5.0
	12	4.9
	13	5.0
IC1603	1	0.1
	2	4.9
	3	0.3
	5	0.1
	9	0.1
	10	5.0
	11	0.3
	12	5.0
	13	0.1
IC1604	1	0
	2	5.0
	3	4.9
	4	0.1
	5	0.4
	6	4.9
	8	0.3
	9	4.7
	10	0.1
	11	4.9
	12	5.0
	13	0
IC1605	1	0
	3	0
	5	0.3
	9	5.0
	11	0
	12	5.0
	13	0
IC1701	1	0
	2	1.3
	3	1.3
	4	5.0
	5	4.7
	6	4.5
	7	0.3
	8	4.7
	10	5.0
	12	0
	13	0
	14	0
	15	0
IC1703	1	0
	2	0
	4	0
	5	0
	7	0
	9	0
	11	0
	12	0
	14	0
	15	0.7
IC1801	1	1.1
	2	–8.1
	3	1.1
	4	–21.6
	5	1.1
	6	–11.5
	7	1.1
IC1803	1	–1.9
	2	3.6
	3	3.5
	5	0
	6	3.1
	7	–1.3
Q1103	B	2.5
	C	0
	E	5.1
Q1105	B	3.9
	E	3.3
Q1201	B	*
	E	*
Q1202	B	3.4
	E	4.1
Q1203	B	*
	C	*
Q1204	B	0
	C	4.1
Q1205	B	*
	E	*
Q1206	B	4.1
	C	8.5
	E	3.3
Q1215	B	0
	C	3.4
Q1301	B	*
	E	*
Q1302	B	3.2
	E	4.0
Q1303	B	*
	C	*
Q1304	B	0
	C	3.9
Q1305	B	*
	E	*
Q1306	B	4.0
	C	8.5
	E	3.2
Q1315	B	0
	C	3.2
Q1401	B	*
	E	*
Q1402	B	3.5
	E	4.1
Q1403	B	*
	C	*
Q1404	B	0
	C	4.1
Q1405	B	*
	E	*
Q1406	B	4.1
	C	8.5
	E	3.4
Q1415	B	0
	C	3.4
Q1505	B	0.7
	C	0
Q1601	B	0
	C	0.1
	E	0.1
Q1801	B	0
	C	614.0
	E	–0.6
Q1802	B	0
	C	613.0
	E	–0.6
Q1803	B	14.7
	C	–14.7
Q1804	B	0.4
	E	1.0
Q1805	B	–14.8
	C	5.0
	E	–14.7
Q1806	G	1.0
	D	72.9
	S	0.1
Q1807	B	73.1
	E	72.7
Q1808	B	5.0
	C	0
	E	5.0
CRT/901	KR	54.1
	KG	55.7
	KB	53.7
	G2	602.0
	H2	6.0

A [VIDEO AMP RGB OUT]

— A BOARD (Conductor Side) —


1
2
3
4
A
B
C
C BLOCK
SONY
A
SONY
(171272514)
1-663-003-14
CRT1901
CN1003
CN1004
CN1008
CN1009
CN1010
HEATER GND
GND (BLACK)
RV1801

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

● A BOARD SEMICONDUCTOR LOCATION

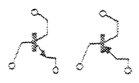
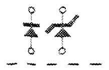
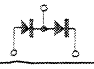
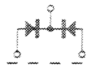
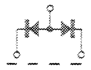
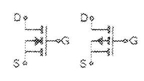
IC	(Conductor Side)	(Component Side)
IC1101		A–1
IC1102		A–4
IC1103		A–1
IC1104		B–4
IC1201	A–3	A–2
IC1202	B–4	B–2
IC1301	A–3	A–3
IC1302	B–3	B–3
IC1401	A–2	A–3
IC1402	B–2	B–3
IC1503		C–4
IC1509		C–3
IC1510		C–4
IC1511		C–4
IC1512		C–4
IC1513		A–1
IC1514		A–1
IC1601		C–3
IC1602		C–4
IC1603		B–4
IC1604		C–4
IC1605		B–4
IC1606		B–3
IC1701	B–1	B–4
IC1703		B–4
IC1801	A–4	A–1
IC1803		B–1
IC1804	A–1	A–4
IC1805	A–1	A–4
IC1806	B–1	B–4

TRANSISTOR	(Conductor Side)	(Component Side)	*
Q1103	C–1		①
Q1105	A–1		①
Q1201		A–2	②
Q1202	A–3		①
Q1203		A–2	②
Q1204	A–3		①
Q1205		A–2	③
Q1206	A–3		③
Q1214		A–2	②
Q1215	A–3		①
Q1301		A–3	②
Q1302	A–2		①
Q1303		A–3	②
Q1304	A–2		①
Q1305		A–3	③
Q1306	A–3		③
Q1314		A–2	②
Q1315	A–2		①
Q1401		A–4	②
Q1402	A–2		①
Q1403		A–3	③
Q1404	A–2		①
Q1405		A–3	②
Q1406	A–2		③
Q1414		A–3	②
Q1415	A–2		①
Q1505	C–1		①
Q1601	B–2		①
Q1701	B–2		⑧
Q1801	C–4		–
Q1802	C–4		–
Q1803		C–1	②
Q1804	B–4		①
Q1805		C–1	②
Q1806		B–1	⑨
Q1807	B–4		③
Q1808	C–2		①

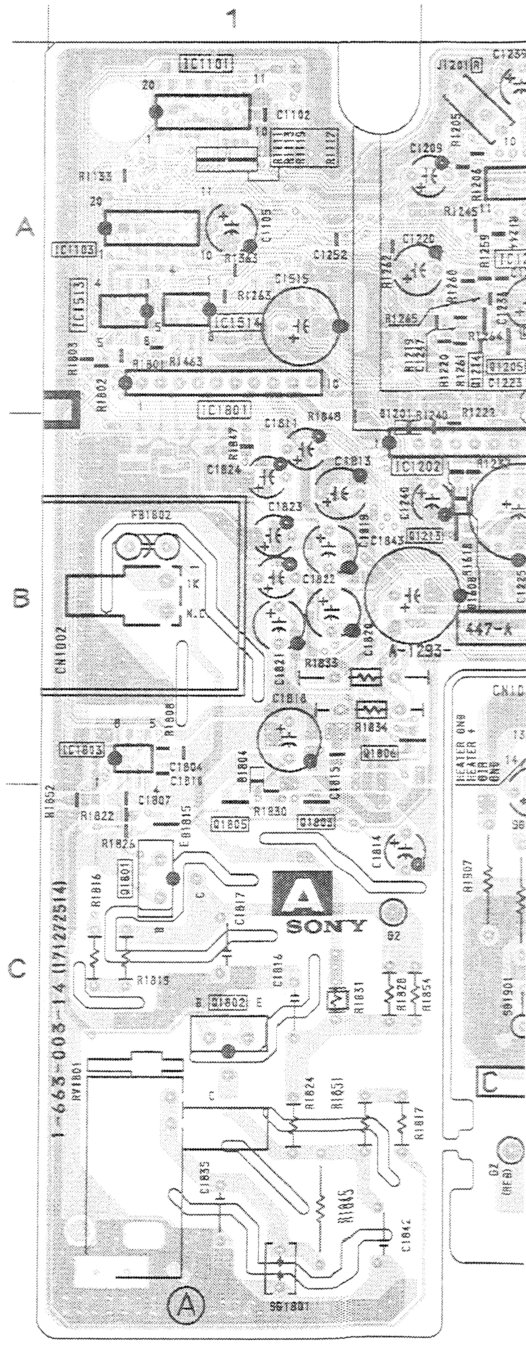
DIODE	(Conductor Side)	(Component Side)	*
D1103	A–4		⑥
D1104	A–4		④
D1106	A–2		⑤
D1107		A–4	④
D1108	C–1		⑤
D1201		B–1	④
D1209	A–3		④
D1301		B–2	④
D1309	A–3		④
D1401		B–3	④
D1409	A–2		④
D1503		B–4	④
D1508	C–2		⑤
D1509	C–2		⑤
D1510	C–1		⑤
D1602	C–2		④
D1603	C–1		④
D1604	C–1		⑦
D1606	C–2		④
D1607	C–2		④
D1610	B–2		④
D1611	C–2		④
D1612	B–2		④
D1613		C–4	④
D1614	B–2		④
D1701	A–2		⑤
D1702	A–2		⑤
D1703	A–3		⑤
D1704	B–2		④
D1705	B–2		⑥
D1706	C–1		④
D1707	C–1		④
D1801	C–4	C–1	–
D1802	C–4	C–1	–
D1803		C–1	④
D1804		B–1	④
D1805	B–4	C–1	–
D1806	B–4		④
D1807	B–4		④
D1808	B–4		④
D1809	B–3		④
D1810	B–3		④
D1811	B–3		④
D1812	B–3		④
D1813	B–2		④
D1814	B–2		④
D1815		C–1	⑥

VARIABLE RESISTOR	(Conductor Side)	(Component Side)
RV1801	C–4	C–1

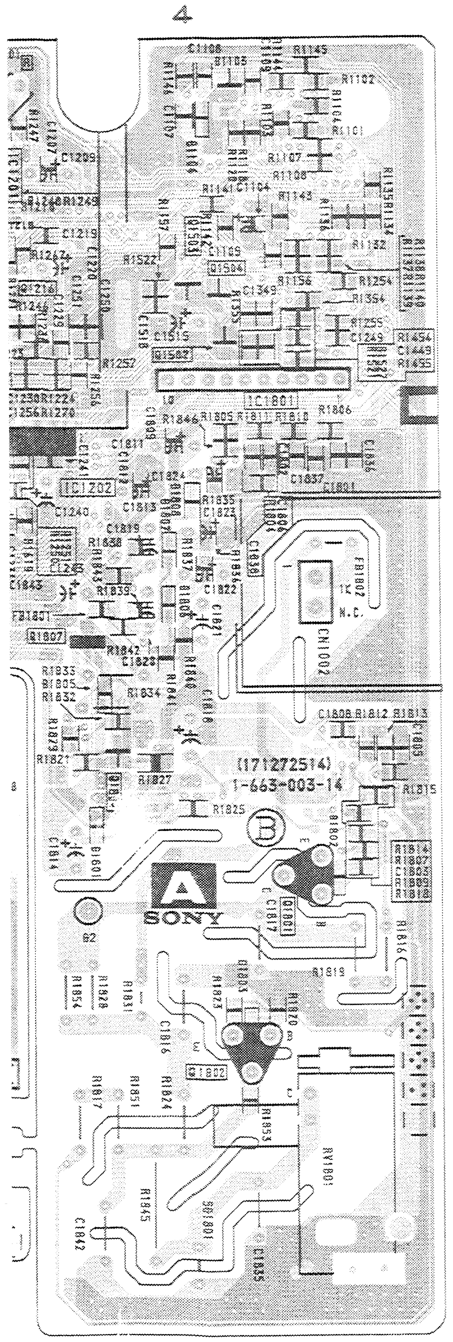
A BOARD Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	┳	Collector Base ┳ Emitter	
②	Transistor	━	Collector ━ Base Emitter	
③	Transistor	┃	□ Emitter □ Collector □ Base	
④	Diode	⊓	Cathode Anode	
⑤	Diode	┳	Common Anode ┳ Cathode	
⑥	Diode	━	Cathode ━ Anode Anode	
⑦	Diode	━	Anode ━ Cathode Cathode	
⑧	Transistor (FET)	┳	Drain Gate ┳ Source	
⑨	Transistor (FET)	━	Drain ━ Gate Source	
–	Discrete semiconductor			

— A BOARD (Component Side) —


1
A
B
C
IC1101
IC1103
IC1513
IC1514
IC1801
IC1202
IC1213
IC1803
CN1002
FB1802
SONY
A
1-663-003-14 (171272514)
RV1801
S61801
447-A
HEATER GND
HEATER +

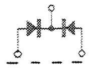
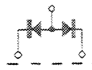
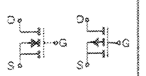
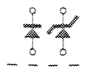
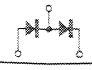
[VIDEO AMP
RGB OUT]



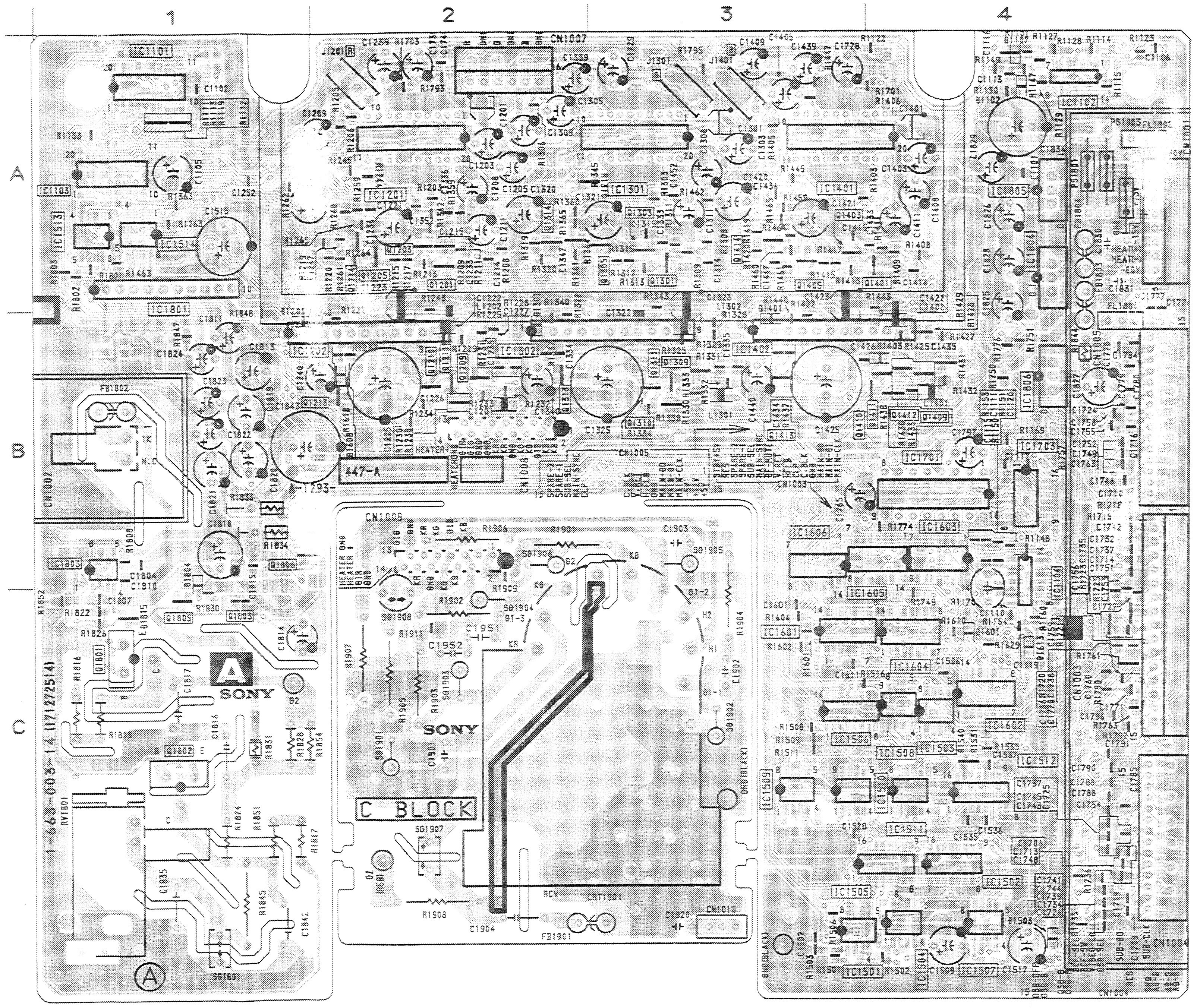
● A BOARD SEMICONDUCTOR LOCATION

IC	(Conductor Side)	(Component Side)	
IC1101		A-1	
IC1102		A-4	
IC1103		A-1	
IC1104		B-4	
IC1201	A-3	A-2	
IC1202	B-4	B-2	
IC1301	A-3	A-3	
IC1302	B-3	B-3	
IC1401	A-2	A-3	
IC1402	B-2	B-3	
IC1503		C-4	
IC1509		C-3	
IC1510		C-4	
IC1511		C-4	
IC1512		C-4	
IC1513		A-1	
IC1514		A-1	
IC1601		C-3	
IC1602		C-4	
IC1603		B-4	
IC1604		C-4	
IC1605		B-4	
IC1606		B-3	
IC1701	B-1	B-4	
IC1703		B-4	
IC1801	A-4	A-1	
IC1803		B-1	
IC1804	A-1	A-4	
IC1805	A-1	A-4	
IC1806	B-1	B-4	
TRANSISTOR	(Conductor Side)	(Component Side)	*
Q1103	C-1		①
Q1105	A-1		①
Q1201		A-2	②
Q1202	A-3		①
Q1203		A-2	②
Q1204	A-3		①
Q1205		A-2	③
Q1206	A-3		③
Q1214		A-2	②
Q1215	A-3		①
Q1301		A-3	②
Q1302	A-2		①
Q1303		A-3	②
Q1304	A-2		①
Q1305		A-3	②
Q1306	A-3		③
Q1314		A-2	②
Q1315	A-2		①
Q1401		A-4	②
Q1402	A-2		①
Q1403		A-3	②
Q1404	A-2		①
Q1405		A-3	②
Q1406	A-2		③
Q1414		A-3	②
Q1415	A-2		①
Q1505	C-1		①
Q1601	B-2		①
Q1701	B-2		③
Q1801	C-4		–
Q1802	C-4		–
Q1803		C-1	②
Q1804	B-4		①
Q1805		C-1	②
Q1806		B-1	⑨
Q1807	B-4		③
Q1808	C-2		①
DIODE	(Conductor Side)	(Component Side)	*
D1103	A-4		⑥
D1104	A-4		④
D1106	A-2		⑤
D1107		A-4	④
D1108	C-1		⑤
D1201		B-1	④
D1209	A-3		④
D1301		B-2	④
D1309	A-3		④
D1401		B-3	④
D1409	A-2		④
D1503		B-4	④
D1508	C-2		⑤
D1509	C-2		⑤
D1510	C-1		⑤
D1602	C-2		④
D1603	C-1		④
D1604	C-1		⑦
D1606	C-2		④
D1607	C-2		④
D1610	B-2		④
D1611	C-2		④
D1612	B-2		④
D1613		C-4	④
D1614	B-2		④
D1701	A-2		⑤
D1702	A-2		⑤
D1703	A-3		⑤
D1704	B-2		④
D1705	B-2		⑥
D1706	C-1		④
D1707	C-1		④
D1801	C-4	C-1	–
D1802	C-4	C-1	–
D1803		C-1	④
D1804		B-1	④
D1805	B-4	C-1	–
D1806	B-4		④
D1807	B-4		④
D1808	B-4		④
D1809	B-3		④
D1810	B-3		④
D1811	B-3		④
D1812	B-3		④
D1813	B-2		④
D1814	B-2		④
D1815		C-1	⑥
VARIABLE RESISTOR	(Conductor Side)	(Component Side)	
RV1801	C-4	C-1	

A BOARD Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit		Device	Printed symbol	Terminal name	Circuit
①	Transistor	┳	Collector Base ┳ Emitter		⑥	Diode	━	Cathode ━ Anode Anode	
②	Transistor	━	Collector ━ Base Emitter		⑦	Diode	━	Anode ━ Cathode Cathode	
③	Transistor	┃	□Emitter □Collector □Base		⑧	Transistor (FET)	┳	Drain Gate ┳ Source	
④	Diode	⊓	Cathode Anode		⑨	Transistor (FET)	━	Drain ━ Gate Source	
⑤	Diode	┳	Common Anode ┳ Cathode		–	Discrete semiconductor			

— A BOARD (Component Side) —



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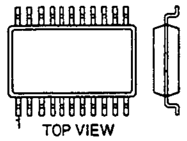
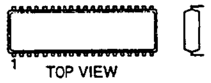
ge of over
c shock in

5-4. SEMICONDUCTORS

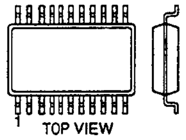
BA10324AF
LM324DR-E2
MC14013BF
MC74HC04AF
MC74HC32AF
SN74HC02ANS
SN74HC74ANS
SN74HC86ANS
TC74HC86AF
µPD74HC02G



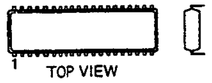
BU4053BCF
LSC4352P
TL494CN
XRU4053BCF



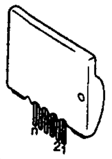
CXA1543M



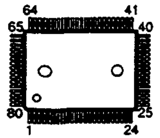
CXA1908S



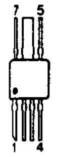
DM-60


n
2
1
MARKING SIDE VIEW

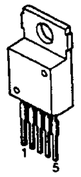
HD64733337WA04H
HD64733337YFP16


64
41
65
40
80
25
1
24
TOP VIEW

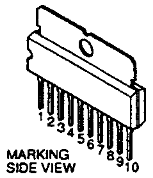
IRSY5305


7
5
1
4
MARKING SIDE VIEW

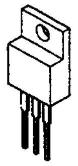
LA6500-FA
LA7890



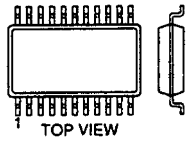
LA6510


1
2
3
4
5
6
7
8
9
10
MARKING SIDE VIEW

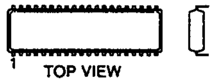
L7805CV
TA7805S
µPC7812AHF



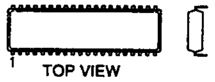
MAX232CWE
MC14027BF
MC74HC157AF
MC74HC4053F
SN74ALS157ANS
TC74HC123AF



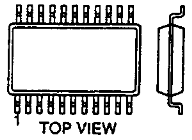
MM1170BFB



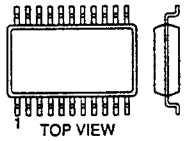
M52048SP



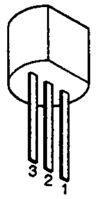
M62352FP
M62352FP-75ND
M62354FP



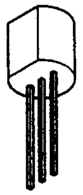
NJM4558M
ST24C08FM6TR
TL082CPS-E20
TL082M
µPC358G2
µPC393G2
µPC4082G2
µPC4558G2
24LC21T/SN



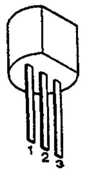
NJM78L05A
NJM78L09A
TA78L09S
µPC78L10J



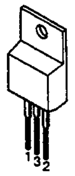
NJM78L12A



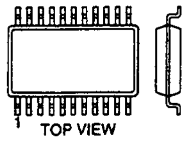
NJM79L12A



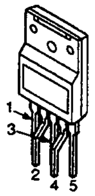
NJM79M05FA



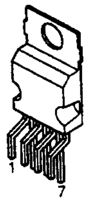
SBA9755S



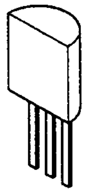
SI-3050F



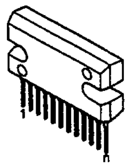
TDA8172



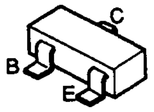
µPC1093J



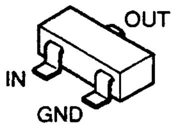
VP301



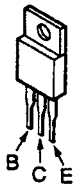
DTA114EKA-T146
DTA114GKAT146
DTA124EKA-T146
DTC114GKAT146
DTC124EKA-T146
2SA1036K-Q
2SA1036K-T-146-Q
2SA1037K-T-146-QR
2SA1162G
2SA1338-5-TA
2SA1338-5-TB
2SA1462-T1Y33Y34
2SA1462-Y33
2SC1621
2SC1621-T1B2B3
2SC1623-L5L6
2SC1623-T1-L5L6
2SC2411K-CQ
2SC2412K-T-146-QR
2SC2412K-T-146-S
2SC3545-T1T43T44
2SC3545-T43



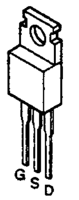
DTB143EK
DTB143EK-T-146



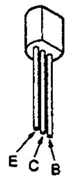
IRFI9630GS
2SC3746
2SC4686A (LB SONY)
2SJ449



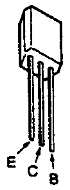
IRLI530G



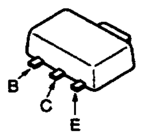
2SA1371DE-AE



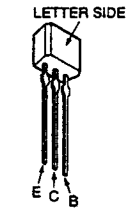
2SC2458-YGR



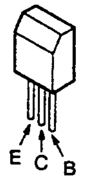
2SC2780-NK
2SC2780-T1
2SC2954
2SC3357-T1HFE



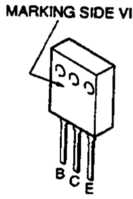
2SC2785-HFE
2SC3311A-QRSTA


LETTER SIDE
E
C
B

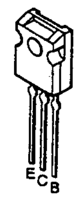
2SC3209LK
2SD774-T-3
2SD774-34



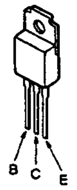
2SC3997CA


MARKING SIDE VIEW
B
C
E

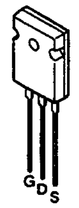
2SC4833MNP



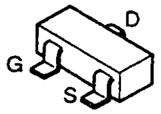
2SC4913



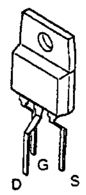
2SK1120(LB SONY2)



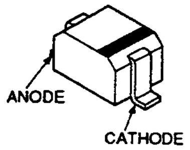
2SK1133
2SK1133-T1B
2SK1849-TB



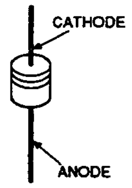
2SK2195



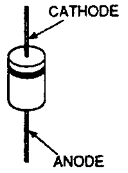
DTZ-TT11-12B
DTZ-TT11-13B
DTZ-TT11-16A
DTZ-TT11-16B
DTZ-TT11-3.0
DTZ-TT11-5.1B
DTZ10B
DTZ16A
DTZ33B
DTZ4.7C
DTZ5.1B
RD12SB2
RD3.0SB2
UDZ-TE-17-10B
UDZ-TE-17-12B
UDZ-TE-17-13B
UDZ-TE-17-16B
UDZ-TE-17-2.2B
UDZ-TE-17-20B
UDZ-TE-17-33B
UDZ-TE-17-4.7B
UDZ-TE-17-5.1B
UDZ-TE-17-6.2B
MA111


ANODE
CATHODE

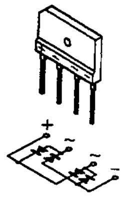
D1NL20-TR
D1NS4
RD16ES-B2
RD16ES-B3
RD18ES-B2
RD4.7ES-B2
1SS119-25
1SS120


CATHODE
ANODE

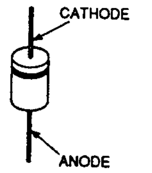
D1NS4-TR2
ERA34-10
EGP20G
GP08D
GP08DPKG23
RD2.2M-B
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EL-6394
RGP15GPKG23


CATHODE
ANODE

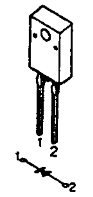
D10SBS4
D2L40-TA
D4SB60L



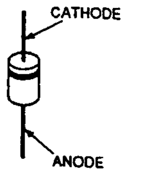
D2S4MF
D2S4MTA1
RGP02-20EG23


CATHODE
ANODE

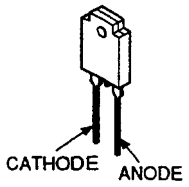
D5L60



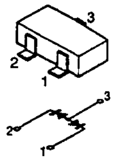
ERA91-02
S2LA20F


CATHODE
ANODE

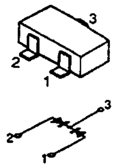
ERC90M-03


CATHODE
ANODE

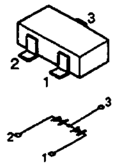
MA151WA-TX
1S2835-T1
1S2836



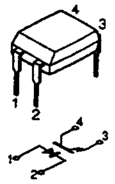
MA151WK-TX
1SS184



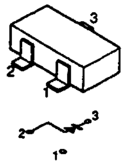
MA153-TX
MA157-TX
1SS226



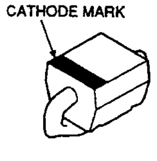
PC123F2
PC123FY2
PS2501-1-L
PS2561L1-1-V



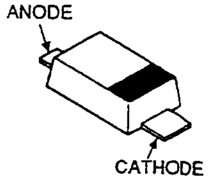
RD13M-B2
RD6.2M-B1
RD7.5M-B2
RD9.1M-B2



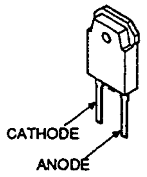
SB560


CATHODE MARK

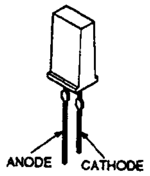
1SS376TE-17


ANODE
CATHODE

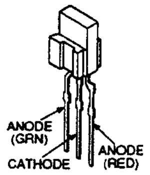
5TUZ52


CATHODE
ANODE

SEL1922D-C
SEL1922D-C,D


ANODE
CATHODE

SPB-26MVWF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CATHODE
ANODE (RED)

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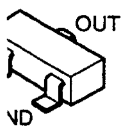
3143EK
3143EK-T-146



630GS
746
686A (LB SONY)
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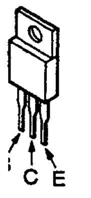
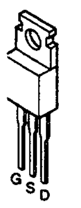
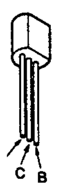


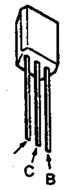
LI530G



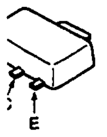
1371DE-AE



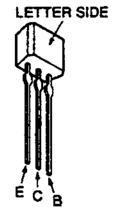
2458-YGR



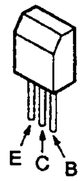
2780-NK
2780-T1
2954
3357-T1HFE



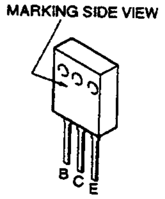
2SC2785-HFE
2SC3311A-QRSTA


LETTER SIDE
E C B

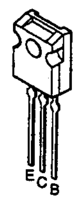
2SC3209LK
2SD774-T-3
2SD774-34



2SC3997CA


MARKING SIDE VIEW
B C E

2SC4833MNP



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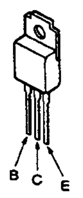
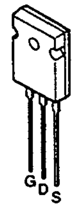
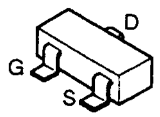


2SK1120(LB SONY2)



2SK1133
2SK1133-T1B
2SK1849-TB



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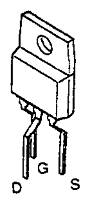
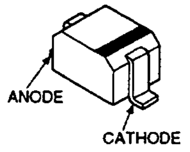
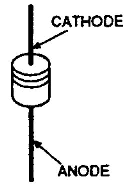


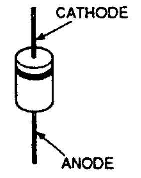
DTZ-TT11-12B
DTZ-TT11-13B
DTZ-TT11-16A
DTZ-TT11-16B
DTZ-TT11-3.0
DTZ-TT11-5.1B
DTZ10B
DTZ16A
DTZ33B
DTZ4.7C
DTZ5.1B
RD12SB2
RD3.0SB2
UDZ-TE-17-10B
UDZ-TE-17-12B
UDZ-TE-17-13B
UDZ-TE-17-16B
UDZ-TE-17-2.2B
UDZ-TE-17-20B
UDZ-TE-17-33B
UDZ-TE-17-4.7B
UDZ-TE-17-5.1B
UDZ-TE-17-6.2B
MA111


ANODE
CATHODE

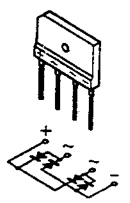
D1NL20-TR
D1NS4
RD16ES-B2
RD16ES-B3
RD18ES-B2
RD4.7ES-B2
1SS119-25
1SS120


CATHODE
ANODE

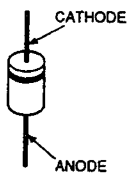
D1NS4-TR2
ERA34-10
EGP20G
GP08D
GP08DPKG23
RD2.2M-B
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EL-6394
RGP15GPKG23


CATHODE
ANODE

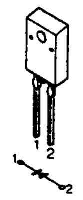
D10SBS4
D2L40-TA
D4SB60L



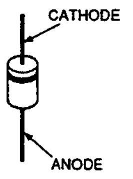
D2S4MF
D2S4MTA1
RGP02-20EG23


CATHODE
ANODE

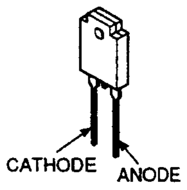
D5L60



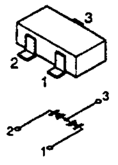
ERA91-02
S2LA20F


CATHODE
ANODE

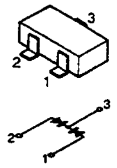
ERC90M-03


CATHODE
ANODE

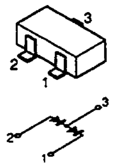
MA151WA-TX
1S2835-T1
1S2836



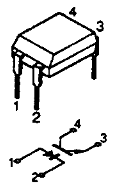
MA151WK-TX
1SS184



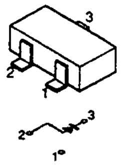
MA153-TX
MA157-TX
1SS226



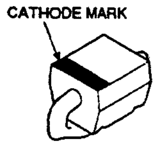
PC123F2
PC123FY2
PS2501-1-L
PS2561L1-1-V



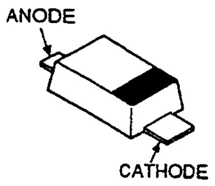
RD13M-B2
RD6.2M-B1
RD7.5M-B2
RD9.1M-B2



SB560


CATHODE MARK

1SS376TE-17


ANODE
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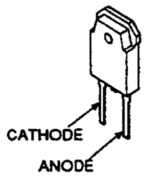
CATHODE
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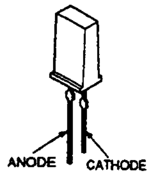
SEL1922D-C
SEL1922D-C,D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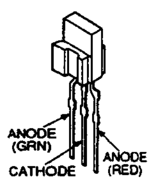
SPB-26MVWF


ANODE (GRN)
CATHODE
ANODE (RED)

SECTION 6

EXPLODED VIEWS

NOTE:

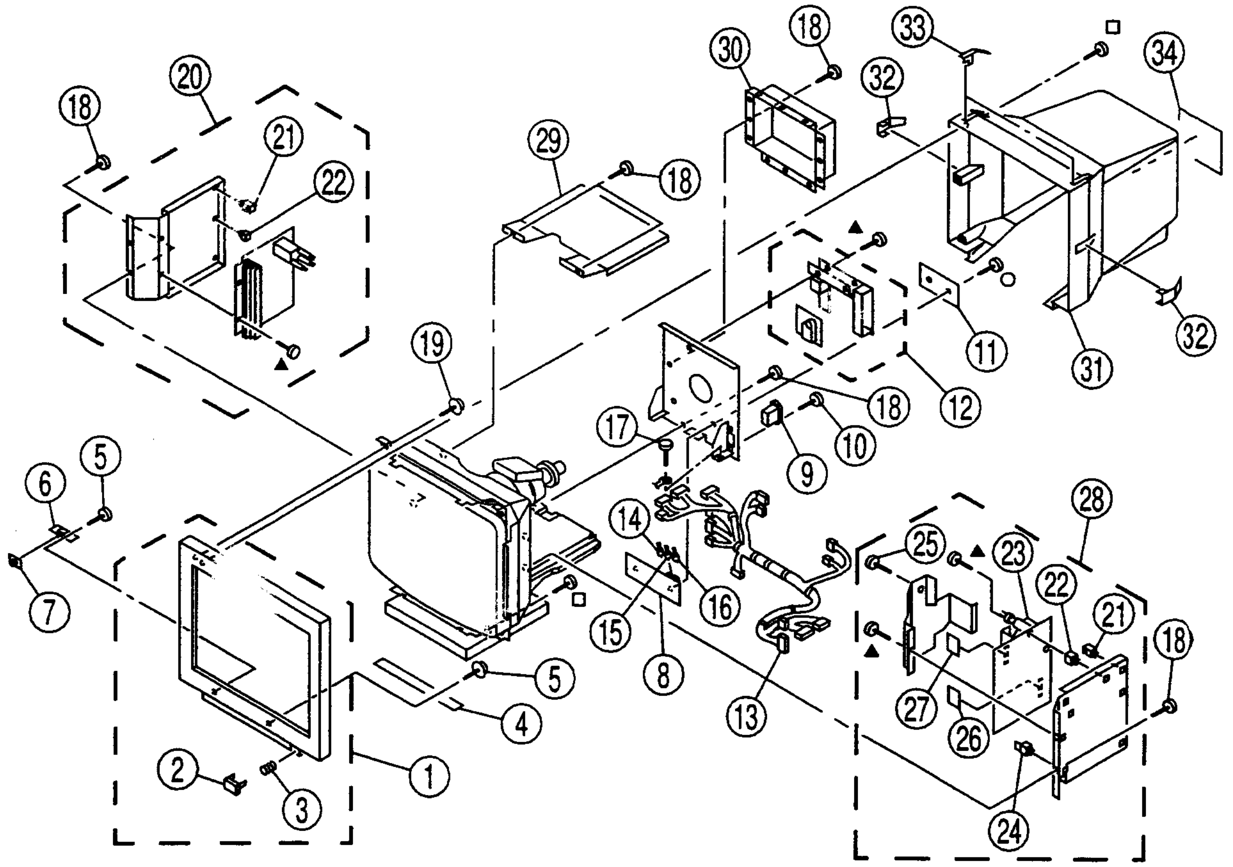
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

6-1. CHASSIS

▲ 7-685-647-79 +BVTP 3X10
□ 7-685-663-71 +BVTP 4X16
○ 7-682-548-04 +-BV TAPPING SCREW M3X8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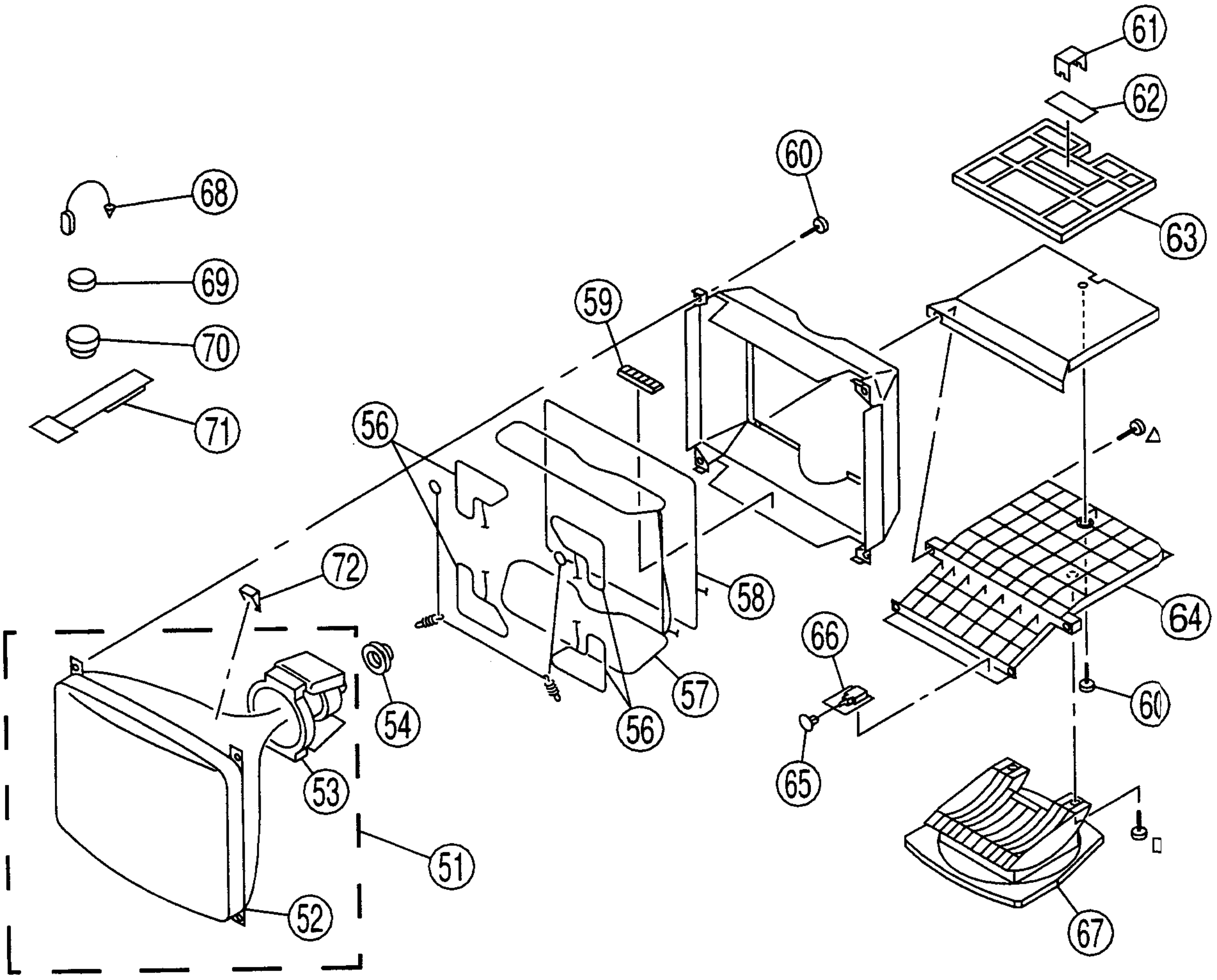
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4033-919-1	BEZEL ASSY	2, 3
2	4-055-556-01	BUTTON, POWER	
3	4-042-593-01	SPRING, COMPRESSION	
4	* 8-933-217-00	CONTROL BLOCK BOARD (H1 BOARD,COMPLETE)	
5	4-029-432-01	SCREW (3X12), (+) BVWHTP	
6	* 8-933-218-00	INPUT SW BOARD (H2 BOARD, COMPLETE)	
7	4-055-558-01	COVER, SLIDE SWITCH	
8	* 8-933-216-00	M BOARD, COMPLETE	
9	⚠ 1-251-382-12	INLET, AC 3P (WITH NOISE FILTE)	
10	4-052-345-01	SCREW, (3X8) (+K), TAPPING	
11	4-055-730-01	LABEL, CONNECTOR	
12	* 8-933-200-00	VIDEO AMP MCB ASSY (A BOARD, COMPLETE)	
13	1-900-215-90	CONNECTOR ASSY	
14	* 1-777-729-31	CABLE, COAXIAL (B)	
15	* 1-777-729-21	CABLE, COAXIAL (G)	
16	* 1-777-729-11	CABLE, COAXIAL (R)	
17	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)	
18	4-381-962-11	SCREW (M4X8), TAPPING, (+-) (BV)	
19	4-046-765-01	SCREW, TAPPING	
20	* 8-933-213-00	DEFLECTION MCB ASSY (D BLOCK ASSY)	21, 22
21	* 3-701-903-11	HOLDER, PC BOARD	
22	* 4-382-848-01	HOLDER, PCB	
23	⚠ * X-4034-094-1	TRANSFORMER ASSY, FLYBACK (NX-4202//J1D4)	
24	* 3-703-141-00	HOLDER, PCB	
25	4-382-854-11	SCREW (M3X10), P, SW (+)	
26	⚠ * 8-933-220-00	POWER BLOCK MCB (GA BOARD, COMPLETE)	
27	⚠ * 8-933-221-00	POWER BLOCK MCB (GB BOARD, COMPLETE)	
28	⚠ * 8-933-219-00	POWER BLOCK ASSY (G BLOCK ASSY)	21~27
29	* 4-055-732-01	COVER, TOP	
30	* 4-055-731-01	SHIELD, VIDEO	
31	4-055-559-01	CABINET	
32	4-055-563-01	COVER (S), SCREW	
33	4-055-562-01	COVER (T), SCREW	
34	* 4-055-595-01	LABEL, INFORMATION	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

6-2. PICTURE TUBE

△ 7-682-562-04 +BV TT 4X10
☐ 7-685-663-71 +BVTP 4X16

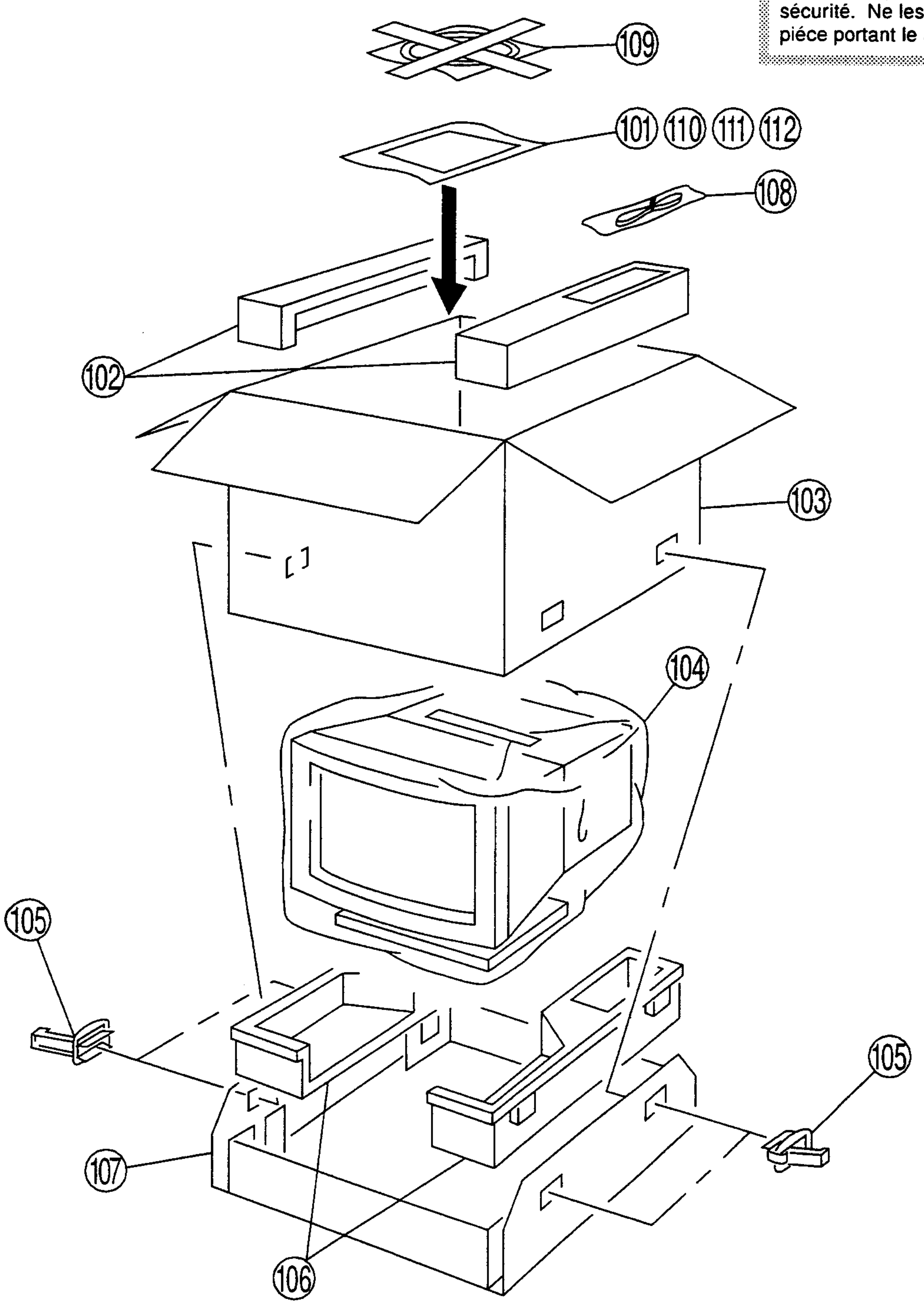


REF.NO.	PART NO.	DESCRIPTION	REMARK
51	⚠ 8-733-002-80	ITC ASSY (24FIF-R1)	52, 53
52	⚠ 8-733-002-05	PICTURE TUBE (24FIF)	
53	⚠ 8-451-481-11	DEFLECTION YOKE (Y24FIK-M)	
54	⚠ 8-453-013-11	NECK ASSY, PICTURE TUBE (NA298-M)	
56	1-415-969-11	COIL, LANDING CORRECTION	
57	⚠ 1-415-970-11	COIL, DEGAUSS	
58	1-415-968-11	COIL, LANDING CORRECTION (NS)	
59	4-055-571-01	SUPPORT, CRT	
60	4-381-962-11	SCREW (M4X8),TAPPING,(+-) (BV)	
61	* 4-055-760-01	SHIELD (L)	
62	* 8-933-214-00	LCC MCB (L BOARD, COMPLETE)	
63	* 4-055-736-01	BRACKET, BOTTOM	
64	4-055-568-01	COVER, BOTTOM	
65	4-031-646-01	SHAFT	
66	* 8-933-215-00	AC SW BOARD (J BOARD, COMPLETE)	
67	X-4033-920-1	STAND ASSY	
68	4-308-870-00	CLIP, LEAD WIRE	
69	1-452-032-00	MAGNET, DISK ; 10mm ϕ	
70	1-452-094-00	MAGNET, ROTATABLE DISK ; 15mm ϕ	
71	X-4030-584-1	PERMALLOY ASSY, CORRECTION	
72	4-040-897-01	SPACER, DY	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

6-3. PACKING MATERIALS



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	3-858-582-11	MANUAL, INSTRUCTION		108	⚠ 1-765-717-11	CORD SET, POWER (10A/250V) (AEP)	
102	* 4-055-440-01	CUSHION (UPPER) (ASSY)		109	1-776-210-11	CABLE ASSY (15P DSUB X2 CONNECTOR)	
103	* 4-055-438-01	INDIVIDUAL CARTON					
104	* 4-396-065-21	BAG, PROTECTION		110	1-573-983-31	ADAPTOR (MAC)	
105	* 4-396-077-01	JOINT					
				111	1-774-648-21	ADAPTOR (VGA)	
106	* 4-055-441-01	CUSHION (LOWER) (ASSY)		112	4-056-722-01	WINDOWS 95 MONITOR INFORMATION DISK (3.5")	
107	* 4-055-439-01	TRAY					
108	⚠ 1-765-718-11	CORD SET, POWER (10A/125V) (U/C)					

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  MF : µF
- COILS
  MMH : mH

REF.NO.	PART NO.	DESCRIPTION		REMARK	
	* 8-933-200-00	VIDEO AMP MCB ASSY (A BOARD, COMPLETE)			
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC1202, IC1302, IC1402, IC1804, IC1805, IC1806)			
	7-322-065-19	RUBBER, SILICON RTV (KE490W) (D1613)			
	<CAPACITOR>				
C1101	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1102	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1104	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1105	1-126-804-11	ELECT	100MF	20%	35V
C1106	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1107	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C1108	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C1109	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C1110	1-136-173-00	FILM	0.47MF	5%	50V
C1111	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1112	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C1113	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1114	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C1115	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C1116	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C1117	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C1118	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C1119	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C1120	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1201	1-126-401-11	ELECT CHIP	1MF	20%	50V
C1202	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C1203	1-107-929-11	ELECT	10MF	20%	50V
C1204	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1205	1-107-929-11	ELECT	10MF	20%	50V
C1206	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1207	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1208	1-107-909-11	ELECT	47MF	20%	35V
C1209	1-107-909-11	ELECT	47MF	20%	35V
C1210	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1211	1-107-909-11	ELECT	47MF	20%	35V
C1213	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1214	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C1217	1-216-174-00	METAL GLAZE	100	5%	1/8W
C1218	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1219	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1220	1-126-804-11	ELECT	100MF	20%	35V
C1221	1-126-804-11	ELECT	100MF	20%	35V
C1222	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C1223	1-126-402-11	ELECT CHIP	2.2MF	20%	50V
C1224	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V
C1225	1-107-934-11	ELECT	220MF	20%	100V
C1226	1-216-295-91	CONDUCTOR, CHIP			
C1227	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1228	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1230	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C1232	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1233	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1237	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C1239	1-107-929-11	ELECT	10MF	20%	50V
C1240	1-107-929-11	ELECT	10MF	20%	50V
C1241	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1242	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1243	1-163-240-11	CERAMIC CHIP	36pF	5%	50V
C1244	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V
C1245	1-163-220-11	CERAMIC CHIP	3pF	0.25pF	50V
C1246	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1247	1-163-099-00	CERAMIC CHIP	18pF	5%	50V
C1249	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1250	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C1251	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C1252	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1253	1-163-257-11	CERAMIC CHIP	180pF	5%	50V
C1254	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V
C1257	1-163-085-00	CERAMIC CHIP	2pF	0.25pF	50V
C1301	1-126-401-11	ELECT CHIP	1MF	20%	50V
C1302	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C1303	1-107-929-11	ELECT	10MF	20%	50V
C1304	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1305	1-107-929-11	ELECT	10MF	20%	50V
C1306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1308	1-107-909-11	ELECT	47MF	20%	35V
C1309	1-107-909-11	ELECT	47MF	20%	35V
C1310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

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REF.NO.	PART NO.	DESCRIPTION		REMARK	
C1311	1-107-909-11	ELECT	47MF	20%	35V
C1313	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1314	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C1317	1-216-174-00	METAL GLAZE	100	5%	1/8W
C1318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1320	1-126-804-11	ELECT	100MF	20%	35V
C1321	1-126-804-11	ELECT	100MF	20%	35V
C1322	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C1323	1-126-402-11	ELECT CHIP	2.2MF	20%	50V
C1324	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V
C1325	1-107-934-11	ELECT	220MF	20%	100V
C1326	1-216-295-91	CONDUCTOR, CHIP			
C1327	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1330	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C1332	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1333	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1337	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C1339	1-107-929-11	ELECT	10MF	20%	50V
C1340	1-107-929-11	ELECT	10MF	20%	50V
C1341	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1342	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1343	1-163-240-11	CERAMIC CHIP	36pF	5%	50V
C1344	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V
C1345	1-163-220-11	CERAMIC CHIP	3pF	0.25pF	50V
C1346	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1347	1-163-099-00	CERAMIC CHIP	18pF	5%	50V
C1349	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1350	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C1351	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C1352	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1353	1-136-257-11	CERAMIC CHIP	180pF	5%	50V
C1357	1-163-085-00	CERAMIC CHIP	2pF	0.25pF	50V
C1401	1-126-401-11	ELECT CHIP	1MF	20%	50V
C1402	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C1403	1-107-929-11	ELECT	10MF	20%	50V
C1404	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1405	1-107-929-11	ELECT	10MF	20%	50V
C1406	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1407	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1408	1-107-909-11	ELECT	47MF	20%	35V
C1409	1-107-909-11	ELECT	47MF	20%	35V
C1410	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1411	1-107-909-11	ELECT	47MF	20%	35V
C1413	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1414	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C1417	1-216-174-00	METAL GLAZE	100	5%	1/8W
C1418	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1419	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1420	1-126-804-11	ELECT	100MF	20%	35V
C1421	1-126-804-11	ELECT	100MF	20%	35V
C1422	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C1423	1-126-402-11	ELECT CHIP	2.2MF	20%	50V
C1424	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V
C1425	1-107-934-11	ELECT	220MF	20%	100V
C1426	1-216-295-91	CONDUCTOR, CHIP			
C1427	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1428	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1430	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C1432	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1433	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1437	1-163-092-00	CERAMIC CHIP	9pF	0.25pF	50V
C1439	1-107-929-11	ELECT	10MF	20%	50V
C1440	1-107-929-11	ELECT	10MF	20%	50V
C1441	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1442	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1443	1-163-240-11	CERAMIC CHIP	36pF	5%	50V
C1444	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V
C1445	1-163-220-11	CERAMIC CHIP	3pF	0.25pF	50V
C1446	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1447	1-163-099-00	CERAMIC CHIP	18pF	5%	50V
C1449	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1450	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C1451	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C1452	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1453	1-163-257-11	CERAMIC CHIP	180pF	5%	50V
C1509	1-126-804-11	ELECT	100MF	20%	35V
C1510	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1511	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1513	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1515	1-107-932-11	ELECT	47MF	20%	100V
C1516	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1517	1-126-804-11	ELECT	100MF	20%	35V
C1519	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1520	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1521	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1522	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V
C1523	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V
C1524	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V
C1528	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1529	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1530	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1531	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1532	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1533	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1534	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1601	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1602	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1604	1-163-127-00	CERAMIC CHIP	270pF	5%	50V
C1605	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C1606	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1607	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1608	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C1609	1-163-129-00	CERAMIC CHIP	330pF	5%	50V
C1610	1-163-241-11	CERAMIC CHIP	39pF	5%	50V
C1611	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1612	1-216-073-00	METAL GLAZE	10K	5%	1/10W
C1613	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1705	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1711	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1717	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION		REMARK	
C1721	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1722	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1723	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1728	1-107-929-11	ELECT	10MF	20%	50V
C1729	1-107-929-11	ELECT	10MF	20%	50V
C1730	1-107-929-11	ELECT	10MF	20%	50V
C1740	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1761	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C1762	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1764	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1765	1-128-526-11	ELECT	100MF	20%	10V
C1781	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C1782	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C1783	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C1797	1-128-526-11	ELECT	100MF	20%	10V
C1798	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1799	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1800	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C1801	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1802	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1803	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1804	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1805	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1806	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1807	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C1808	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C1809	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1810	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1811	1-107-929-11	ELECT	10MF	20%	50V
C1812	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	100V
C1813	1-107-929-11	ELECT	10MF	20%	100V
C1814	1-107-929-11	ELECT	10MF	20%	50V
C1815	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1816	1-162-114-00	CERAMIC	0.0047MF		2KV
C1817	1-162-114-00	CERAMIC	0.0047MF		2KV
C1818	1-128-528-11	ELECT	470MF	20%	16V
C1819	1-107-939-11	ELECT	1MF	20%	160V
C1820	1-107-939-11	ELECT	1MF	20%	160V
C1821	1-107-939-11	ELECT	1MF	20%	160V
C1822	1-107-925-11	ELECT	1MF	20%	100V
C1823	1-107-925-11	ELECT	1MF	20%	100V
C1824	1-107-925-11	ELECT	1MF	20%	100V
C1825	1-107-929-11	ELECT	10MF	20%	50V
C1826	1-107-929-11	ELECT	10MF	20%	50V
C1827	1-126-804-11	ELECT	100MF	20%	35V
C1828	1-107-929-11	ELECT	10MF	20%	50V
C1829	1-107-929-11	ELECT	10MF	20%	50V
C1830	1-162-318-11	CERAMIC	0.001MF	10%	500V
C1831	1-162-318-11	CERAMIC	0.001MF	10%	500V
C1832	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1833	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1834	1-107-932-11	ELECT	47MF	20%	100V
C1835	1-162-114-00	CERAMIC	0.0047MF		2KV
C1836	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1837	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1838	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1839	1-163-237-11	CERAMIC CHIP	27pF	5%	50V

REF.NO.	PART NO.	DESCRIPTION		REMARK	
C1840	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C1841	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1842	1-162-114-00	CERAMIC	0.0047MF		2KV
C1843	1-107-934-11	ELECT	220MF	20%	100V
C1844	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C1901	1-102-989-00	CERAMIC	68pF	5%	500V
C1902	1-102-989-00	CERAMIC	68pF	5%	500V
C1903	1-102-989-00	CERAMIC	68pF	5%	500V
C1904	1-162-114-00	CERAMIC	0.0047MF		2KV
		<CONNECTOR>			
CN1001	1-564-523-11	PLUG, CONNECTOR 8P			
CN1002 *	1-766-179-11	PIN, CONNECTOR (PC BOARD) 2P			
CN1003 *	1-564-594-21	PLUG, CONNECTOR 15P			
		<JACK>			
CRT1901 ⚠	1-251-116-12	SOCKET, PICTURE TUBE			
		<DIODE>			
D1103	8-719-801-78	DIODE 1SS184			
D1104	8-719-404-49	DIODE MA111			
D1106	8-719-800-76	DIODE 1SS226			
D1107	8-719-404-49	DIODE MA111			
D1108	8-719-800-76	DIODE 1SS226			
D1201	8-719-404-49	DIODE MA111			
D1209	8-719-157-93	ZENER DIODE RD3.0SB2			
D1301	8-719-404-49	DIODE MA111			
D1309	8-719-157-93	ZENER DIODE RD3.0SB2			
D1401	8-719-404-49	DIODE MA111			
D1409	8-719-157-93	ZENER DIODE RD3.0SB2			
D1503	8-719-404-49	DIODE MA111			
D1508	8-719-800-76	DIODE 1SS226			
D1509	8-719-800-76	DIODE 1SS226			
D1510	8-719-800-76	DIODE 1SS226			
D1602	8-719-404-49	DIODE MA111			
D1603	8-719-404-49	DIODE MA111			
D1604	8-719-104-34	DIODE 1S2836			
D1606	8-719-404-49	DIODE MA111			
D1607	8-719-404-49	DIODE MA111			
D1610	8-719-404-49	DIODE MA111			
D1611	8-719-404-49	DIODE MA111			
D1612	8-719-404-49	DIODE MA111			
D1613	8-719-404-49	DIODE MA111			
D1614	8-719-404-49	DIODE MA111			
D1701	8-719-800-76	DIODE 1SS226			
D1702	8-719-800-76	DIODE 1SS226			
D1703	8-719-800-76	DIODE 1SS226			
D1704	8-719-404-49	DIODE MA111			
D1705	8-719-801-78	DIODE 1SS184			
D1706	8-719-404-49	DIODE MA111			
D1707	8-719-404-49	DIODE MA111			
D1801	8-719-404-49	DIODE MA111			
D1802	8-719-404-49	DIODE MA111			

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1803	8-719-404-49	DIODE MA111	
D1804	8-719-404-49	DIODE MA111	
D1805	8-719-404-49	DIODE MA111	
D1806	8-719-052-12	DIODE 1SS376TE-17	
D1807	8-719-052-12	DIODE 1SS376TE-17	
D1808	8-719-052-12	DIODE 1SS376TE-17	
D1809	8-719-052-12	DIODE 1SS376TE-17	
D1810	8-719-052-12	DIODE 1SS376TE-17	
D1811	8-719-052-12	DIODE 1SS376TE-17	
D1812	8-719-052-12	DIODE 1SS376TE-17	
D1813	8-719-052-12	DIODE 1SS376TE-17	
D1814	8-719-052-12	DIODE 1SS376TE-17	
D1815	8-719-801-78	DIODE 1SS184	
		<FERRITE BEAD>	
FB1201	1-412-363-21	INDUCTOR	0UH
FB1301	1-412-363-21	INDUCTOR	0UH
FB1401	1-412-363-21	INDUCTOR	0UH
FB1801	1-412-390-21	INDUCTOR CHIP	0UH
FB1802	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB1803	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB1804	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB1901	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
		<FILTER>	
FL1801	1-236-164-11	ENCAPSULATED COMPONENT	
FL1802	1-236-164-11	ENCAPSULATED COMPONENT	
		<IC>	
IC1101	8-759-044-65	IC M62352FP	
IC1102	8-759-060-00	IC BA10324AF	
IC1103	8-759-044-65	IC M62352FP	
IC1104	8-759-060-00	IC BA10324AF	
IC1201	8-759-399-68	IC M52048SP	
IC1202	8-759-434-36	IC VP301	
IC1301	8-759-399-68	IC M52048SP	
IC1302	8-759-434-36	IC VP301	
IC1401	8-759-399-68	IC M52048SP	
IC1402	8-759-434-36	IC VP301	
IC1503	8-759-981-48	IC TL082M	
IC1509	8-759-981-48	IC TL082M	
IC1510	8-759-981-48	IC TL082M	
IC1511	8-759-981-48	IC TL082M	
IC1512	8-759-932-67	IC BU4053BCF	
IC1513	8-759-981-48	IC TL082M	
IC1514	8-759-981-48	IC TL082M	
IC1601	8-759-239-23	IC TC74HC86AF	
IC1602	8-759-032-20	IC MC74HC32AF	
IC1603	8-759-008-82	IC MC14013BF	
IC1604	8-759-032-11	IC MC74HC04AF	
IC1605	8-759-008-82	IC MC14013BF	
IC1606	8-759-287-83	IC SN74HC74ANS-E20	
IC1701	8-759-442-71	IC LSC4352P	

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1703	8-759-032-41	IC MC74HC157AF	
IC1801	8-759-347-17	IC LA7890	
IC1803	8-759-100-96	IC UPC4558G2	
IC1804	8-759-701-65	IC NJM79M05FA	
IC1805	8-759-088-08	IC UPC7812AHF	
IC1806	8-759-231-53	IC TA7805S	
		<JACK>	
J1201	* 1-568-547-11	JACK, MINIATUER PIN	
J1301	* 1-568-547-11	JACK, MINIATUER PIN	
J1401	* 1-568-547-11	JACK, MINIATUER PIN	
		<COIL>	
L1203	1-412-735-11	INDUCTOR 82UH	
L1303	1-412-735-11	INDUCTOR 82UH	
L1403	1-412-735-11	INDUCTOR 82UH	
L1901	1-410-180-51	INDUCTOR CHIP	0.1UH
L1902	1-410-180-51	INDUCTOR CHIP	0.12UH
L1903	1-410-180-51	INDUCTOR CHIP	0.12UH
		<IC LINK>	
PS1801	⚠ 1-533-590-31	LINK, IC	1A/90V AC, 60V DC
PS1802	⚠ 1-533-590-31	LINK, IC	1A/90V AC, 60V DC
PS1803	⚠ 1-532-841-21	LINK, IC	1.6A/90V AC, 60V DC
		<TRANSISTOR>	
Q1103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1201	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1202	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1203	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1204	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1205	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1206	8-729-129-54	TRANSISTOR 2SC2954	
Q1214	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1215	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1301	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1302	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1303	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1304	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1305	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1306	8-729-129-54	TRANSISTOR 2SC2954	
Q1314	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1315	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1401	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1402	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q1403	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1404	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1405	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q1406	8-729-129-54	TRANSISTOR 2SC2954	
Q1414	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1415	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1505	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1601	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1701	8-729-144-85	TRANSISTOR 2SK1133	
Q1801	8-729-027-71	TRANSISTOR 2SC4913	
Q1802	8-729-027-71	TRANSISTOR 2SC4913	
Q1803	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q1804	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR	
Q1805	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1806	8-729-030-42	TRANSISTOR 2SK1849-TB	
Q1807	8-729-104-27	TRANSISTOR 2SC2780-NK	
Q1808	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1101	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1102	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1103	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1104	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1107	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1108	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1111	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1113	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1115	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1117	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1118	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1119	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1120	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1121	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1123	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1124	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R1125	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R1127	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1128	1-208-824-11	METAL CHIP 56K 0.50% 1/10W	
R1131	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1133	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1134	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1135	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1136	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1137	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1138	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1139	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1140	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1141	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1142	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1143	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1144	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1145	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1146	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1147	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R1148	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1149	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1150	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R1151	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R1152	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R1153	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1154	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1155	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1156	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1157	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1158	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R1159	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1160	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1161	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1162	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R1163	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1164	1-216-107-00	METAL GLAZE 270K 5% 1/10W	
R1165	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R1166	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R1167	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1168	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R1169	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1170	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R1171	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R1201	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R1202	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R1203	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1204	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1205	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R1206	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1207	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R1208	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1209	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1210	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R1211	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1212	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1213	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1214	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1215	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R1216	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R1217	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1218	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1219	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1220	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1221	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R1222	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R1223	1-216-635-11	METAL CHIP 220 0.50% 1/10W	
R1224	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1225	1-216-295-91	CONDUCTOR, CHIP	
R1226	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R1227	1-208-810-11	METAL CHIP 15K 0.50% 1/10W	
R1228	1-208-810-11	METAL CHIP 15K 0.50% 1/10W	
R1229	1-208-812-11	METAL CHIP 18K 0.50% 1/10W	
R1236	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W	
R1240	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R1241	1-216-635-00	METAL CHIP 220 0.50% 1/10W	
R1242	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R1243	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1244	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R1245	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R1246	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R1247	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1248	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1249	1-216-083-00	METAL GLAZE 27K 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION		REMARK	
* R1250	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1251	1-216-603-11	METAL CHIP	10	0.50%	1/10W
R1253	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1254	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1255	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R1256	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1257	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1259	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1260	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1261	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1262	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1263	1-216-111-00	METAL GLAZE	390K	5%	1/10W
R1265	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R1266	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1301	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1302	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1303	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1304	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1305	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1306	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1307	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1308	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1309	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1310	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1311	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1312	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1313	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1314	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1315	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1316	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1317	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1318	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1319	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1320	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1321	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R1322	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1323	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R1324	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1325	1-216-295-91	CONDUCTOR, CHIP			
R1326	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1327	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R1328	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R1329	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R1336	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R1339	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1340	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1341	1-216-635-00	METAL CHIP	220	0.50%	1/10W
R1342	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1343	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1344	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R1345	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1346	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1347	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1348	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1349	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1350	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1351	1-216-613-91	METAL CHIP	27	0.50%	1/10W
R1354	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1355	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R1356	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1357	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1359	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1360	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1361	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1362	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1363	1-216-111-00	METAL GLAZE	390K	5%	1/10W
R1365	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R1366	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1401	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1402	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1403	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1404	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1405	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1406	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1407	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1408	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1409	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1410	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1411	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1412	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1413	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1414	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1415	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1416	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1417	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1418	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1419	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1420	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1421	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R1422	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1423	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R1424	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1425	1-216-295-91	CONDUCTOR, CHIP			
R1426	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1427	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R1428	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R1429	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R1436	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R1439	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1440	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1441	1-216-295-91	CONDUCTOR, CHIP			
R1442	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1443	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1444	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R1445	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1446	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1447	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1448	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1449	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1450	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1451	1-216-603-11	METAL CHIP	10	0.50%	1/10W
R1454	1-216-113-00	METAL GLAZE	470K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK	
R1455	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R1456	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1457	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1459	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1460	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1461	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1462	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1463	1-216-111-00	METAL GLAZE	390K	5%	1/10W
R1465	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R1466	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1502	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R1503	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1525	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1526	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1531	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1532	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1533	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1534	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1535	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1536	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R1540	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1541	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1601	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1603	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1604	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1605	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1606	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1607	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R1608	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R1609	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1610	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1611	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1613	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1615	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1616	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1620	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1621	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1622	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R1623	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1625	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R1626	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1629	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R1701	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1702	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1703	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1707	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1708	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1709	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1721	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1723	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1725	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1726	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1732	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1733	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1734	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1735	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1736	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1737	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1738	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1739	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1740	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1741	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R1742	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1743	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R1744	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R1745	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1746	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1747	1-412-011-31	INDUCTOR CHIP		27UH	
R1748	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1749	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1750	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1751	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1752	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1753	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1754	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1755	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1757	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1758	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1759	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1760	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1773	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1774	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1775	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1776	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1787	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1788	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1789	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1790	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1791	1-216-013-00	METAL GLAZE	33	5%	1/10W
R1801	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R1802	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R1803	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R1804	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R1805	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1806	1-218-762-11	METAL CHIP	270K	0.50%	1/10W
R1807	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1808	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1810	1-218-762-11	METAL CHIP	270K	0.50%	1/10W
R1811	1-218-762-11	METAL CHIP	270K	0.50%	1/10W
R1812	1-216-117-00	METAL GLAZE	680K	5%	1/10W
R1814	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1815	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1816	1-208-612-11	METAL OXIDE	10M	5%	1W
R1817	1-208-612-11	METAL OXIDE	10M	5%	1W
R1818	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1819	1-208-612-11	METAL OXIDE	10M	5%	1W
R1820	1-216-295-91	CONDUCTOR CHIP			
R1821	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1822	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1823	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1824	1-208-610-11	METAL OXIDE	2M	5%	1W
R1825	1-216-073-00	METAL GLAZE	10K	5%	1/10W

A **M**

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK	
R1826	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1827	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R1828	1-208-610-11	METAL OXIDE	2M	5%	1W	
R1829	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R1830	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1831	1-249-417-11	CARBON	1K	5%	1/4W	F
R1832	1-216-011-00	METAL GLAZE	27	5%	1/10W	
R1833	1-215-896-00	METAL OXIDE	4.7K	5%	2W	F
R1834	1-215-875-11	METAL OXIDE	10K	5%	1W	F
R1835	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1836	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1837	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1838	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R1839	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R1840	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R1841	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1842	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1843	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1844	1-249-409-11	CARBON	220	5%	1/4W	F
R1845	1-202-842-11	SOLID	220K	20%	1/2W	
R1847	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1849	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1850	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1851	1-208-612-11	METAL OXIDE	10M	5%	1W	
R1852	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R1853	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1854	1-208-610-11	METAL OXIDE	2M	5%	1W	
R1901	1-260-081-11	CARBON	33	5%	1/2W	
R1902	1-260-081-11	CARBON	33	5%	1/2W	
R1903	1-260-081-11	CARBON	33	5%	1/2W	
R1904	1-260-093-11	CARBON	330	5%	1/2W	
R1905	1-260-093-11	CARBON	330	5%	1/2W	
R1906	1-260-093-11	CARBON	330	5%	1/2W	
R1907	1-202-842-11	SOLID	220K	20%	1/2W	
R1908	1-202-842-11	SOLID	220K	20%	1/2W	
R1909	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1910	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1911	1-216-049-91	METAL GLAZE	1K	5%	1/10W	

<VARIABLE RESISTOR>

RV1801 ⚠ 1-223-410-21 RES, ADJ, METAL FILM 110M (H.STAT)

<SPARK GAP>

SG1801	1-519-422-11	GAP, SPARK
SG1901	1-519-504-11	GAP, DISCHARGE
SG1902	1-519-504-11	GAP, DISCHARGE
SG1903	1-519-504-11	GAP, DISCHARGE
SG1904	1-519-504-11	GAP, DISCHARGE
SG1905	1-519-504-11	GAP, DISCHARGE
SG1906	1-519-504-11	GAP, DISCHARGE
SG1907	1-519-422-11	GAP, SPARK
SG1908	1-517-499-21	GAP, SPARK

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* 8-933-216-00 M BOARD, COMPLETE

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1-533-814-11 TERMINAL BOARD ASSY, I/O
(J2001-J2005, CN2003)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C2001	1-126-160-11	ELECT	1MF	20%	50V
C2002	1-126-794-11	ELECT	4.7MF	20%	50V
C2003	1-126-160-11	ELECT	1MF	20%	50V
C2004	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2005	1-127-693-11	ELECT	27MF	20%	50V
C2006	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2007	1-126-794-11	ELECT	4.7MF	20%	50V
C2008	1-126-160-11	ELECT	1MF	20%	50V
C2009	1-126-160-11	ELECT	1MF	20%	50V
C2010	1-126-177-11	ELECT	100MF	20%	10V
C2011	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2012	1-126-160-11	ELECT	1MF	20%	50V
C2013	1-126-160-11	ELECT	1MF	20%	50V
C2014	1-126-795-11	ELECT	10MF	20%	50V
C2015	1-126-160-11	ELECT	1MF	20%	50V
C2020	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C2021	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
C2022	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2023	1-126-794-11	ELECT	4.7MF	20%	50V
C2024	1-126-795-11	ELECT	10MF	20%	50V
C2025	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2026	1-126-794-11	ELECT	4.7MF	20%	50V
C2027	1-126-795-11	ELECT	10MF	20%	50V

<CONNECTOR>

CN2001 * 1-564-594-41 PLUG, CONNECTOR 15P

<DIODE>

D2001	8-719-404-49	DIODE MA111
D2002	8-719-801-78	DIODE 1SS184
D2003	8-719-104-34	DIODE 1S2836
D2004	8-719-801-78	DIODE 1SS184
D2005	8-719-104-34	DIODE 1S2836
D2006	8-719-800-76	DIODE 1SS226
D2007	8-719-800-76	DIODE 1SS226
D2008	8-719-976-99	ZENER DIODE DTZ5.1B
D2009	8-719-404-49	DIODE MA111
D2010	8-719-976-99	ZENER DIODE DTZ5.1B
D2011	8-719-976-99	ZENER DIODE DTZ5.1B
D2012	8-719-800-76	DIODE 1SS226
D2013	8-719-800-76	DIODE 1SS226
D2014	8-719-106-23	ZENER DIODE RD7.5M-B2
D2015	8-719-106-23	ZENER DIODE RD7.5M-B2
D2016	8-719-056-89	ZENER DIODE UDZ-TE-17-12B
D2017	8-719-056-89	ZENER DIODE UDZ-TE-17-12B
D2018	8-719-801-78	DIODE 1SS184
D2019	8-719-976-99	ZENER DIODE DTZ5.1B

REF.NO.	PART NO.	DESCRIPTION	REMARK
D2020	8-719-976-99	ZENER DIODE DTZ5.1B	
D2021	8-719-800-76	DIODE 1SS226	
D2100	8-719-800-76	DIODE 1SS226	
	<FILTER>		
FL2001	1-236-058-11	ENCAPSULATED COMPONENT	
FL2002	1-236-058-11	ENCAPSULATED COMPONENT	
FL2003	1-236-058-11	ENCAPSULATED COMPONENT	
	<IC>		
IC2001	8-759-049-11	IC SN74ALS157ANS	
IC2002	8-759-370-08	IC 24LC21T/SN	
IC2003	8-759-521-15	IC MAX232CWE	
IC2004	8-759-011-65	IC MC74HC4053F	
	<JACK>		
J2006	* 1-568-547-11	JACK, MINIATUER PIN	
J2007	* 1-568-547-11	JACK, MINIATUER PIN	
J2008	* 1-568-547-11	JACK, MINIATUER PIN	
	<TRANSISTOR>		
Q2001	8-729-162-13	TRANSISTOR 2SC1621-B3	
Q2002	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q2003	8-729-162-13	TRANSISTOR 2SC1621-B3	
Q2004	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR	
Q2005	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2006	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR	
Q2007	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2008	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
	<RESISTOR>		
R2002	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2003	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2004	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2005	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2006	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2007	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2008	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2009	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2010	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R2011	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2012	1-216-009-00	METAL GLAZE 22 5% 1/10W	
R2013	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2014	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2016	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R2017	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2018	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R2019	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R2020	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R2021	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R2022	1-216-049-91	METAL GLAZE 1K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R2023	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2024	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2027	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R2028	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R2029	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2030	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R2031	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R2032	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R2034	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R2035	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R2037	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R2038	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R2039	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R2040	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R2041	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R2048	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R2049	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2050	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R2051	1-216-071-91	METAL GLAZE 8.2K 5% 1/10W	
R2052	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R2053	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2054	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R2055	1-216-071-91	METAL GLAZE 8.2K 5% 1/10W	
R2056	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R2057	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2058	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R2059	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2060	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2061	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2062	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2063	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2064	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R2065	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R2066	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R2110	1-216-295-91	CONDUCTOR, CHIP	
R2111	1-216-295-91	CONDUCTOR, CHIP	
R2114	1-216-295-91	CONDUCTOR, CHIP	
R2116	1-216-295-91	CONDUCTOR, CHIP	
R2118	1-216-295-91	CONDUCTOR, CHIP	
R2126	1-216-295-91	CONDUCTOR, CHIP	
R2127	1-216-295-91	CONDUCTOR, CHIP	
R2129	1-216-295-91	CONDUCTOR, CHIP	
R2130	1-216-295-91	CONDUCTOR, CHIP	
R2131	1-216-295-91	CONDUCTOR, CHIP	
	<RELAY>		
RY2001	1-755-177-11	RELAY	
RY2002	1-755-177-11	RELAY	
RY2003	1-755-177-11	RELAY	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
⚠*	8-933-219-00	POWER BLOCKASSY (G BLOCK ASSY)			
		**			
	4-047-285-01	SHEET, INSULATING (Q4207)			
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC4104, Q4107, Q4112, Q4113, Q4207, Q4209, D4101, D4106, D4128, R4237)			
		<CAPACITOR>			
C4101⚠	1-113-926-91	CERAMIC	0.0047MF		250V
C4102⚠	1-113-926-91	CERAMIC	0.0047MF		250V
C4105⚠	1-133-597-11	FILM	1MF	10%	400V
C4113⚠	1-163-251-91	CERAMIC CHIP	100pF	5%	50V
C4116⚠	1-129-898-91	FILM	0.0022MF	5%	630V
C4118⚠	1-104-332-91	CERAMIC	470pF	10%	2KV
C4119⚠	1-113-597-11	FILM	1MF	10%	400V
C4120⚠	1-113-607-11	ELECT(SOLID)	330MF	20%	400V
C4121⚠	1-165-127-91	CERAMIC	470pF	10%	500V
C4122⚠	1-165-127-91	CERAMIC	470pF	10%	500V
C4123⚠	1-107-905-91	ELECT	4.7MF	20%	50V
C4124⚠	1-137-192-81	FILM	0.33MF	5%	50V
C4125⚠	1-137-192-81	FILM	0.33MF	5%	50V
C4126⚠	1-164-645-91	CERAMIC	1000pF	10%	500V
C4127⚠	1-107-797-81	CERAMIC	150pF	5%	1KV
C4128⚠	1-107-797-81	CERAMIC	150pF	5%	1KV
C4129⚠	1-128-526-91	ELECT	100MF	20%	25V
C4130⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4132⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4133⚠	1-102-989-91	CERAMIC	68pF	5%	500V
C4134⚠	1-163-037-91	CERAMIC CHIP	0.022MF	10%	50V
C4135⚠	1-136-538-11	FILM	0.001MF	3%	2KV
C4136⚠	1-137-192-81	FILM	0.33MF	5%	50V
C4137⚠	1-111-057-91	ELECT	120MF	20%	25V
C4138⚠	1-104-652-91	ELECT	470MF	20%	10V
C4139⚠	1-163-023-91	CERAMIC CHIP	0.015MF	10%	50V
C4140⚠	1-115-766-51	ELECT	0.0022F	20%	16V
C4141⚠	1-137-188-81	FILM	0.15MF	5%	50V
C4142⚠	1-137-188-81	FILM	0.15MF	5%	50V
C4143⚠	1-128-526-91	ELECT	100MF	20%	25V
C4144⚠	1-107-880-91	ELECT	4700MF	20%	10V
C4145⚠	1-107-880-91	ELECT	4700MF	20%	10V
C4146⚠	1-136-333-91	FILM	0.027MF	5%	630V
C4147⚠	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C4148⚠	1-107-928-91	ELECT	4.7MF	20%	100V
C4149⚠	1-164-646-91	CERAMIC	2200pF	10%	500V
C4150⚠	1-107-966-51	ELECT	220MF	20%	250V
C4151⚠	1-107-928-91	ELECT	4.7MF	20%	100V
C4152⚠	1-107-959-91	ELECT	3.3MF	20%	250V
C4153⚠	1-107-892-91	ELECT	4700MF	20%	25V
C4154⚠	1-107-890-91	ELECT	2200MF	20%	25V
C4155⚠	1-107-934-91	ELECT	220MF	20%	100V
C4156⚠	1-107-888-91	ELECT	47MF	20%	25V
C4157⚠	1-107-888-91	ELECT	47MF	20%	25V
C4158⚠	1-107-928-91	ELECT	4.7MF	20%	100V
C4159⚠	1-107-905-91	ELECT	4.7MF	20%	50V
C4160⚠	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C4161⚠	1-107-888-91	ELECT	47MF	20%	25V
C4162⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C4163⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C4164⚠	1-107-533-51	FILM	1MF	20%	250V
C4165⚠	1-107-533-51	FILM	1MF	20%	250V
C4166⚠	1-107-875-91	ELECT	220MF	20%	10V
C4167⚠	1-107-906-91	ELECT	10MF	20%	50V
C4168⚠	1-163-037-91	CERAMIC CHIP	0.022MF	10%	50V
C4201⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4202⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4203⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4204⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4205⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4206⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4207⚠	1-107-903-91	ELECT	2.2MF	20%	50V
C4208⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4209⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4211⚠	1-107-909-91	ELECT	47MF	20%	50V
C4212⚠	1-107-909-91	ELECT	47MF	20%	50V
C4213⚠	1-163-251-91	CERAMIC CHIP	100pF	5%	50V
C4215⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4216⚠	1-107-909-11	ELECT	47MF	20%	50V
C4218⚠	1-163-809-91	CERAMIC CHIP	0.047MF	10%	25V
C4227⚠	1-137-190-81	FILM	0.22MF	5%	50V
C4230⚠	1-108-427-91	MYLAR	0.033MF	10%	200V
C4233⚠	1-108-427-91	MYLAR	0.033MF	10%	200V
C4235⚠	1-136-064-11	FILM	0.002MF	3%	2KV
C4236⚠	1-117-398-11	ELECT	33MF	20%	250V
C4237⚠	1-115-516-71	FILM	0.33MF	5%	250V
C4238⚠	1-108-389-91	MYLAR	0.1MF	10%	100V
C4239⚠	1-108-373-91	MYLAR	0.0047MF	10%	100V
C4240⚠	1-137-372-91	FILM	0.022MF	5%	50V
C4242⚠	1-108-393-91	MYLAR	0.22MF	10%	100V
C4243⚠	1-108-389-91	MYLAR	0.1MF	10%	100V
C4244⚠	1-108-415-91	MYLAR	0.0033MF	10%	200V
C4245⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4301⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4302⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C4303⚠	1-107-907-91	ELECT	22MF	20%	50V
C4304⚠	1-162-114-71	CERAMIC	0.0047MF		2KV
		<CONNECTOR>			
CN4002 ⚠	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P			
CN4003 ⚠	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P			
CN4004 ⚠	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
CN4005 ⚠	1-564-511-51	PLUG, CONNECTOR 8P			
CN4006 ⚠	1-564-514-11	PLUG, CONNECTOR 11P			
CN4007 ⚠	1-564-516-31	PLUG, CONNECTOR 13P			
CN4008 ⚠	1-564-522-11	PLUG, CONNECTOR 7P			
CN4009 ⚠	1-774-511-11	CONNECTOR, BOARD TO BOARD 10P			
CN4010 ⚠	1-770-212-11	CONNECTOR, BOARD TO BOARD 16P			
CN4011 ⚠	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P			

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REF.NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>			
D4101⚠	8-719-510-53	DIODE D4SB60L	
D4103⚠	8-719-404-50	DIODE MA111-TX	
D4105⚠	8-719-404-50	DIODE MA111-TX	
D4106⚠	8-719-029-04	DIODE D5L60	
D4107⚠	8-719-404-50	DIODE MA111-TX	
D4108⚠	8-719-404-50	DIODE MA111-TX	
D4109⚠	8-719-921-20	DIODE 1SS119-25TD	
D4110⚠	8-719-921-20	DIODE 1SS119-25TD	
D4111⚠	8-719-921-20	DIODE 1SS119-25TD	
D4112⚠	8-719-921-20	DIODE 1SS119-25TD	
D4113⚠	8-719-056-71	ZENER DIODE UDZ-TE-17-2.2B	
D4114⚠	8-719-404-50	DIODE MA111-TX	
D4115⚠	8-719-024-88	DIODE D1NL20-TR	
D4116⚠	8-719-056-71	ZENER DIODE UDZ-TE-17-2.2B	
D4117⚠	8-719-404-50	DIODE MA111-TX	
D4118⚠	8-719-024-88	DIODE D1NL20-TR	
D4119⚠	8-719-032-10	DIODE D1NS4-TR2	
D4120⚠	8-719-022-98	DIODE D2S4MTA1	
D4122⚠	8-719-022-98	DIODE D2S4MTA1	
D4123⚠	8-719-022-98	DIODE D2S4MTA1	
D4124⚠	8-719-052-86	DIODE D2L40-TA	
D4125⚠	8-719-052-86	DIODE D2L40-TA	
D4126⚠	8-719-024-88	DIODE D1NL20-TR	
D4127⚠	8-719-052-86	DIODE D2L40-TA	
D4128⚠	8-719-052-28	DIODE D10SBS4	
D4129⚠	8-719-404-50	DIODE MA111-TX	
D4130⚠	8-719-052-86	DIODE D2L40-TA	
D4131⚠	8-719-024-88	DIODE DINL20-TR	
D4132⚠	8-719-056-94	ZENER DIODE UDZ-TE-17-20B	
D4133⚠	8-719-113-35	ZENER DIODE RD18ES-T1B2	
D4134⚠	8-719-404-50	DIODE MA111-TX	
D4135⚠	8-719-404-50	DIODE MA111-TX	
D4136⚠	8-719-113-35	ZENER DIODE RD18ES-T1B2	
D4137⚠	8-719-404-50	DIODE MA111-TX	
D4138⚠	8-719-404-50	DIODE MA111-TX	
D4139⚠	8-719-404-50	DIODE MA111-TX	
D4141⚠	8-719-404-50	DIODE MA111-TX	
D4142⚠	8-719-404-50	DIODE MA111-TX	
D4201⚠	8-719-404-50	DIODE MA111-TX	
D4202⚠	8-719-056-80	ZENER DIODE UDZ-TE-17-5.1B	
D4204⚠	8-719-056-87	ZENER DIODE UDZ-TE-17-10B	
D4206⚠	8-719-056-87	ZENER DIODE UDZ-TE-17-10B	
D4211⚠	8-719-404-50	DIODE MA111-TX	
D4214⚠	8-719-056-92	ZENER DIODE UDZ-TE-17-16B	
D4218⚠	8-719-056-90	ZENER DIODE UDZ-TE-17-13B	
D4219⚠	8-719-048-73	DIODE ERC90M-03	
D4220⚠	8-719-056-99	ZENER DIODE UDZ-TE-17-33B	
D4221⚠	8-719-922-20	DIODE 1SS120TD	
D4222⚠	8-719-921-20	DIODE 1SS119-25TD	
D4223⚠	8-719-113-16	ZENER DIODE RD16ES-T1B2	
D4224⚠	8-719-921-20	DIODE 1SS119-25TD	
D4225⚠	8-719-989-44	DIODE ERA34-10TP1	
D4226⚠	8-719-989-44	DIODE ERA34-10TP1	
D4229⚠	8-719-404-50	DIODE MA111-TX	
D4301⚠	8-719-404-50	DIODE MA111-TX	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D4302⚠	8-719-404-50	DIODE MA111-TX	
D4303⚠	8-719-056-79	ZENER DIODE UDZ-TE-17-4.7B	
<FUSE>			
F4101⚠	1-576-233-11	FUSE (H.B.C.) (6.3A/250V)	
⚠	1-533-223-11	HOLDER, FUSE ; F4101	
<FERRITE BEAD>			
FB4101⚠	1-410-396-51	FERRITE BEAD INDUCTOR	0.45UH
FB4102⚠	1-410-396-51	FERRITE BEAD INDUCTOR	0.45UH
FB4103⚠	1-410-396-51	FERRITE BEAD INDUCTOR	0.45UH
FB4104⚠	1-410-396-51	FERRITE BEAD INDUCTOR	0.45UH
FB4105⚠	1-410-396-51	FERRITE BEAD INDUCTOR	0.45UH
FB4201⚠	1-410-397-31	FERRITE BEAD INDUCTOR	1.1UH
FB4202⚠	1-410-397-31	FERRITE BEAD INDUCTOR	1.1UH
<IC>			
IC4103⚠	8-759-189-04	IC UPC1093J-T	
IC4104⚠	8-749-011-42	IC SI-3050F	
IC4105⚠	8-749-013-03	IC DM-60	
IC4201⚠	8-759-708-48	IC NJM78L12A-T1	
<COIL>			
L4101⚠	1-411-674-11	COIL, CHOKE 68UH	
L4102⚠	1-408-603-21	INDUCTOR 10UH	
L4103⚠	1-403-588-21	CIL, CHOKE 22UH	
L4104⚠	1-406-659-21	COIL, CHOKE 10UH	
L4105⚠	1-403-588-21	CIL, CHOKE 22UH	
L4106⚠	1-410-645-41	INDUCTOR 100UH	
L4201⚠	1-412-537-61	INDUCTOR 100UH	
L4202⚠	1-406-660-41	COIL, CHOKE 15UH	
<PHOTO COUPLER>			
PH4101⚠	8-749-010-65	PHOTO COUPLER PC123F2	
PH4102⚠	8-719-156-73	PHOTO COUPLER PS2501-1-L	
PH4103⚠	8-749-010-65	PHOTO COUPLER PC123F2	
<IC LINK>			
PS4101⚠	1-532-685-91	LINK, IC 0.8A/150V	
PS4102⚠	1-532-637-91	LINK, IC 1A/150V	
PS4103⚠	1-533-593-31	LINK, IC 2A/90V	
PS4104⚠	1-533-593-31	LINK, IC 2A/90V	
PS4105⚠	1-533-595-31	LINK, IC 3.15A/90V	
PS4106⚠	1-533-593-31	LINK, IC 2A/90V	
PS4201⚠	1-533-592-31	LINK, IC 1.6A/90V	
<TRANSISTOR>			
Q4103⚠	8-729-824-24	TRANSISTOR 2SA1338-5-TB	
Q4104⚠	8-729-824-24	TRANSISTOR 2SA1338-5-TB	
Q4105⚠	8-729-033-26	TRANSISTOR DTA114GKAT146	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q4106⚠	8-729-920-75	TRANSISTOR 2SC2412K-T-146-QR	
Q4107⚠	8-729-039-47	TRANSISTOR 2SK2195	
Q4110⚠	8-729-033-24	TRANSISTOR DTC114GKAT146	
Q4111⚠	8-729-033-26	TRANSISTOR DTA114GKAT146	
Q4112⚠	8-729-033-51	TRANSISTOR 2SC4833MNP-2	
Q4113⚠	8-729-033-51	TRANSISTOR 2SC4833MNP-2	
Q4114⚠	8-729-920-75	TRANSISTOR 2SC2412K-T-146-QR	
Q4115⚠	8-729-039-74	TRANSISTOR 2SC4833MNP-1	
Q4116⚠	8-729-039-74	TRANSISTOR 2SC4833MNP-1	
Q4117⚠	8-729-033-26	TRANSISTOR DTA114GKAT146	
Q4118⚠	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
Q4119⚠	8-729-033-26	TRANSISTOR DTA114GKAT146	
Q4120⚠	8-729-230-44	TRANSISTOR 2SC2458TP-YGR	
Q4121⚠	8-729-036-01	TRANSISTOR 2SA1371DE-AE	
Q4122⚠	8-729-033-24	TRANSISTOR DTC114GKAT146	
Q4123⚠	8-729-033-26	TRANSISTOR DTA114GKAT146	
Q4124⚠	8-729-033-24	TRANSISTOR DTC114GKAT146	
Q4125⚠	8-729-901-91	TRANSISTOR 2SC2411K-T-146-CQ	
Q4201⚠	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q4202⚠	8-729-904-55	TRANSISTOR DTB143EK-T-146	
Q4203⚠	8-729-143-24	TRANSISTOR 2SC1621-T1B2B3	
Q4204⚠	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q4205⚠	8-729-901-91	TRANSISTOR 2SC2411K-T-146-CQ	
Q4206⚠	8-729-902-02	TRANSISTOR 2SA1036K-T-146-Q	
Q4207⚠	8-729-033-91	TRANSISTOR 2SK1120LBSONY2	
Q4209⚠	8-729-035-88	TRANSISTOR 2SJ449	
Q4301⚠	8-729-033-24	TRANSISTOR DTC114GKAT146	
Q4302⚠	8-729-033-24	TRANSISTOR DTC114GKAT146	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R4106⚠	1-215-485-91	METAL	470K	1%	1/4W	
R4107⚠	1-215-485-91	METAL	470K	1%	1/4W	
R4114⚠	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R4115⚠	1-216-001-91	METAL GLAZE	10	5%	1/10W	
R4120⚠	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R4121⚠	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R4122⚠	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R4123⚠	1-215-485-91	METAL	470K	1%	1/4W	
R4124⚠	1-215-483-91	METAL	390K	1%	1/4W	
R4125⚠	1-218-191-71	METAL OXIDE	0.1	5%	1W	F
R4126⚠	1-249-429-91	CARBON	10K	5%	1/4W	F
R4127⚠	1-215-485-91	METAL	470K	1%	1/4W	
R4128⚠	1-218-191-71	METAL OXIDE	0.1	5%	1W	F
R4129⚠	1-215-483-91	METAL	390K	1%	1/4W	
R4130⚠	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R4131⚠	1-218-642-71	METAL OXIDE	100K	5%	1W	F
R4132⚠	1-218-642-71	METAL OXIDE	100K	5%	1W	F
R4133⚠	1-216-085-91	METAL GLAZE	33K	5%	1/10W	
R4134⚠	1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R4135⚠	1-216-113-91	METAL GLAZE	470K	5%	1/10W	
R4136⚠	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R4137⚠	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R4138⚠	1-218-642-71	METAL OXIDE	100K	5%	1W	F
R4139⚠	1-218-642-71	METAL OXIDE	100K	5%	1W	F
R4140⚠	1-216-357-71	METAL OXIDE	4.7	5%	1W	F
R4141⚠	1-215-859-71	METAL OXIDE	22	5%	1W	F
R4142⚠	1-215-859-71	METAL OXIDE	22	5%	1W	F
R4143⚠	1-216-081-91	METAL GLAZE	22K	5%	1/10W	
R4144⚠	1-216-357-71	METAL OXIDE	4.7	5%	1W	F
R4145⚠	1-217-418-61	FUSIBLE	0.47	10%	1/2W	F
R4146⚠	1-215-479-91	METAL	270K	1%	1/4W	
R4147⚠	1-215-479-91	METAL	270K	1%	1/4W	
R4148⚠	1-215-479-91	METAL	270K	1%	1/4W	
R4149⚠	1-216-304-91	METAL GLAZE	3.3	5%	1/10W	
R4150⚠	1-215-479-91	METAL	270K	1%	1/4W	
R4151⚠	1-249-389-91	CARBON	4.7	5%	1/4W	F
R4152⚠	1-216-304-91	METAL GLAZE	3.3	5%	1/10W	
R4153⚠	1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R4154⚠	1-216-651-91	METAL CHIP	1K	0.50%	1/10W	
R4155⚠	1-216-669-91	METAL CHIP	5.6K	0.50%	1/10W	
R4156⚠	1-216-061-91	METAL GLAZE	3.3K	5%	1/10W	
R4157⚠	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R4158⚠	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R4159⚠	1-216-633-91	METAL CHIP	180	0.50%	1/10W	
R4160⚠	1-216-649-91	METAL CHIP	820	0.50%	1/10W	
R4161⚠	1-211-800-71	FUSIBLE	2.2	5%	1/2W	F
R4162⚠	1-216-031-91	METAL GLAZE	180	5%	1/10W	
R4163⚠	1-216-031-91	METAL GLAZE	180	5%	1/10W	
R4164⚠	1-216-113-91	METAL GLAZE	470K	5%	1/10W	
R4165⚠	1-249-413-91	CARBON	470	5%	1/4W	F
R4166⚠	1-215-483-91	METAL	390K	1%	1/4W	
R4167⚠	1-216-689-91	METAL CHIP	39K	0.50%	1/10W	
R4168⚠	1-216-673-91	METAL CHIP	8.2K	0.50%	1/10W	
R4169⚠	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R4170⚠	1-215-473-91	METAL	150K	1%	1/4W	
R4171⚠	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R4172⚠	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R4173⚠	1-216-345-71	METAL OXIDE	0.47	5%	1W	F
R4174⚠	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R4175⚠	1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R4176⚠	1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R4177⚠	1-216-397-71	METAL OXIDE	4.7	5%	3W	F
R4178⚠	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R4179⚠	1-260-304-71	CARBON	10	5%	1/2W	
R4180⚠	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R4181⚠	1-260-292-71	CARBON	1	5%	1/2W	
R4182⚠	1-205-998-11	WIREWOUND	1	5%	10W	
R4183⚠	1-202-914-91	SOLID	390K	20%	1/2W	
R4184⚠	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R4185⚠	1-259-033-91	CARBON	1	5%	1/4W	
R4186⚠	1-218-642-71	METAL OXIDE	100K	5%	1W	F
R4188⚠	1-216-045-91	METAL GLAZE	680	5%	1/10W	
R4189⚠	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R4190⚠	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R4191⚠	1-249-397-91	CARBON	22	5%	1/4W	F
R4192⚠	1-216-295-91	CONDUCTOR, CHIP				
R4201⚠	1-216-001-91	METAL GLAZE	10	5%	1/10W	
R4202⚠	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R4203⚠	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R4205⚠	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R4206⚠	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	

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G **GA**

REF.NO.	PART NO.	DESCRIPTION				REMARK
R4207⚠	1-247-807-91	CARBON	100	5%	1/4W	
R4208⚠	1-247-807-91	CARBON	100	5%	1/4W	
R4209⚠	1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R4211⚠	1-216-647-91	METAL CHIP	680	0.50%	1/10W	
R4212⚠	1-216-647-91	METAL CHIP	680	0.50%	1/10W	
R4213⚠	1-216-041-91	METAL GLAZE	470	5%	1/10W	
R4214⚠	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R4216⚠	1-216-647-91	METAL CHIP	680	0.50%	1/10W	
R4218⚠	1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R4219⚠	1-216-647-91	METAL CHIP	680	0.50%	1/10W	
R4222⚠	1-216-671-91	METAL CHIP	6.8K	0.50%	1/10W	
R4223⚠	1-216-671-91	METAL CHIP	6.8K	0.50%	1/10W	
R4226⚠	1-249-397-91	CARBON	22	5%	1/4W	F
R4228⚠	1-249-397-91	CARBON	22	5%	1/4W	F
R4231⚠	1-216-663-91	METAL CHIP	3.3K	0.50%	1/10W	
R4232⚠	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R4233⚠	1-216-689-91	METAL CHIP	39K	0.50%	1/10W	
R4234⚠	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	
R4235⚠	1-216-657-91	METAL CHIP	1.8K	0.50%	1/10W	
R4236⚠	1-216-673-91	METAL CHIP	8.2K	0.50%	1/10W	
R4237⚠	1-219-727-11	METAL	68	5%	10W	
R4238⚠	1-249-393-91	CARBON	10	5%	1/4W	F
R4239⚠	1-202-873-91	SOLID	4.7K	20%	1/2W	
R4240⚠	1-202-885-91	SOLID	1M	20%	1/2W	
R4241⚠	1-247-807-91	CARBON	100	5%	1/4W	
R4242⚠	1-247-855-91	CARBON	10K	5%	1/4W	
R4244⚠	1-247-871-91	CARBON	47K	5%	1/4W	
R4245⚠	1-249-413-91	CARBON	470	5%	1/4W	F
R4249⚠	1-216-109-91	METAL GLAZE	330K	5%	1/10W	
R4301⚠	1-260-085-81	CARBON	68	5%	1/2W	
R4302⚠	1-260-085-81	CARBON	68	5%	1/2W	
R4303⚠	1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R4304⚠	1-216-081-91	METAL GLAZE	22K	5%	1/10W	
<RELAY>						
RY4301 ⚠	1-515-849-11	RELAY				
RY4302 ⚠	1-515-849-11	RELAY				
<SPARK GAP>						
SG4201 ⚠	1-519-421-32	GAP, DISCHARGE				
<TRANSFORMER>						
T4101⚠	1-415-935-11	COIL, CHOKE				
T4102⚠	1-429-212-11	TRANSFORMER, CONVERTER (PIT)				
T4103⚠	1-429-254-11	TRANSFORMER, CONVERTER (PRT)				
T4104⚠	1-429-254-11	TRANSFORMER, CONVERTER (PRT)				
T4105⚠	1-429-967-11	TRANSFORMER, CONVERTER (PIT)				
T4106⚠	1-429-966-11	TRANSFORMER, CONVERTER				
T4108⚠	1-429-969-11	TRANSFORMER, LINE FILTER				
T4201⚠	1-415-934-11	COIL, CHOKE 500mH				
T4202⚠*	X-4034-094-1	TRANSFORMER ASSY, FLYBACK (NX-4202//J1D4)				

REF.NO.	PART NO.	DESCRIPTION				REMARK
<THERMISTOR>						
TH4101 ⚠	1-801-558-11	THERMISTOR, POWER				
TH4301 ⚠	1-809-827-11	THERMISTOR, POSITIVE				
<TEST PIN>						
TP4102 ⚠	1-695-915-21	TAB (CONTACT)				
<VARISTOR>						
VD4101 ⚠	1-810-267-51	VARISTOR TNR10V431K660				
VD4102 ⚠	1-801-268-51	VARISTOR TNR14V471K660				

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⚠* 8-933-220-00 POWER BLOCK MCB (GA BOARD, COMPLETE)

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REF.NO.	PART NO.	DESCRIPTION				REMARK
<CAPACITOR>						
C4103⚠	1-163-017-91	CERAMIC CHIP	0.0047MF	10%	50V	
C4104⚠	1-163-275-91	CERAMIC CHIP	0.001MF	5%	50V	
C4106⚠	1-137-194-81	FILM	0.47MF	5%	50V	
C4107⚠	1-126-790-91	ELECT	47MF	20%	25V	
C4108⚠	1-137-190-81	FILM	0.22MF	5%	50V	
C4109⚠	1-137-190-81	FILM	0.22MF	5%	50V	
C4110⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V	
C4111⚠	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V	
C4112⚠	1-126-790-91	ELECT	47MF	20%	25V	
C4114⚠	1-137-370-91	FILM	0.01MF	5%	50V	
C4115⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V	
C4117⚠	1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V	
<CONNECTOR>						
CN4013 ⚠	1-774-512-11	CONNECTOR, BPARD TO BOARD 10P				
<DIODE>						
D4102⚠	8-719-056-82	ZENER DIODE UDZ-TE-17-6.2B				
D4104⚠	8-719-978-68	ZENER DIODE DTZ16A				
<IC>						
IC4101⚠	8-759-904-94	IC TL494CN				
IC4102⚠	8-759-198-31	IC UPC1093J-1-T				
<TRANSISTOR>						
Q4101⚠	8-729-920-72	TRANSISTOR 2SA1037K-T-146-Q				
Q4102⚠	8-729-920-72	TRANSISTOR 2SA1037K-T-146-Q				
Q4108⚠	8-729-033-24	TRANSISTOR DTC114GKAT146				
Q4109⚠	8-729-033-26	TRANSISTOR DTA114GKAT146				

GA GB D

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R4101⚠	1-216-041-91	METAL GLAZE 470	5% 1/10W
R4102⚠	1-216-017-91	METAL GLAZE 47	5% 1/10W
R4103⚠	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R4104⚠	1-216-073-91	METAL GLAZE 10K	5% 1/10W
R4105⚠	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R4108⚠	1-216-699-91	METAL CHIP 100K	0.50% 1/10W
R4109⚠	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R4110⚠	1-216-065-91	METAL GLAZE 4.7K	5% 1/10W
R4111⚠	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R4112⚠	1-216-025-91	METAL GLAZE 100	5% 1/10W
R4113⚠	1-216-667-91	METAL CHIP 4.7K	0.50% 1/10W
R4116⚠	1-216-081-91	METAL GLAZE 22K	5% 1/10W
R4117⚠	1-216-689-91	METAL CHIP 39K	0.50% 1/10W
R4118⚠	1-216-669-91	METAL CHIP 5.6K	0.50% 1/10W
R4119⚠	1-216-065-91	METAL GLAZE 4.7K	5% 1/10W

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⚠* 8-933-221-00 POWER BLOCK MCB (GB BOARD, COMPLETE)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C4210⚠	1-163-267-91	CERAMIC CHIP 470pF	5% 50V
C4214⚠	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C4217⚠	1-126-796-91	ELECT 22MF	20% 50V
C4219⚠	1-126-382-91	ELECT 100MF	20% 16V
C4220⚠	1-137-198-81	FILM 1MF	5% 50V
C4221⚠	1-163-275-91	CERAMIC CHIP 0.001MF	5% 50V
C4222⚠	1-124-261-91	ELECT 10MF	20% 50V
C4223⚠	1-164-690-91	CERAMIC CHIP 0.0022MF	5% 50V
C4224⚠	1-137-198-81	FILM 1MF	5% 50V
C4225⚠	1-164-004-91	CERAMIC CHIP 0.1MF	10% 25V
C4226⚠	1-124-261-91	ELECT 10MF	20% 50V
C4228⚠	1-163-275-91	CERAMIC CHIP 0.001MF	5% 50V
C4229⚠	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C4231⚠	1-163-243-91	CERAMIC CHIP 47pF	5% 50V
C4232⚠	1-124-257-91	ELECT 2.2MF	20% 50V
C4234⚠	1-124-259-91	ELECT 4.7MF	20% 50V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN4012⚠	1-770-214-11	CONNECTOR, BOARD TO BOARD 16P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D4203⚠	8-719-404-50	DIODE MA111-TX	
D4205⚠	8-719-404-50	DIODE MA111-TX	
D4207⚠	8-719-404-50	DIODE MA111-TX	
D4208⚠	8-719-404-50	DIODE MA111-TX	
D4209⚠	8-719-404-50	DIODE MA111-TX	
D4210⚠	8-719-404-50	DIODE MA111-TX	
D4212⚠	8-719-404-50	DIODE MA111-TX	
D4213⚠	8-719-404-50	DIODE MA111-TX	
D4215⚠	8-719-404-50	DIODE MA111-TX	
D4216⚠	8-719-921-20	DIODE 1SS119-25TD	
D4217⚠	8-719-404-50	DIODE MA111-TX	
D4227⚠	8-719-056-87	DIODE UDZ-TE-17-10B	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC4202⚠	8-759-351-04	IC SBA9755S	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q4208⚠	8-729-027-52	TRANSISTOR DTC124EKA-T146	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R4204⚠	1-216-667-91	METAL CHIP 4.7K	0.50% 1/10W
R4210⚠	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R4215⚠	1-216-065-91	METAL GLAZE 4.7K	5% 1/10W
R4217⚠	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R4220⚠	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R4221⚠	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R4224⚠	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R4225⚠	1-216-025-91	METAL GLAZE 100	5% 1/10W
R4227⚠	1-216-117-91	METAL GLAZE 680K	5% 1/10W
R4229⚠	1-216-073-91	METAL GLAZE 10K	5% 1/10W
R4230⚠	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R4246⚠	1-216-295-91	CONDUCTOR, CHIP	
R4247⚠	1-216-081-91	METAL GLAZE 22K	5% 1/10W
R4248⚠	1-216-073-91	METAL GLAZE 10K	5% 1/10W

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* 8-933-213-00 DEFLECTION MCB ASSY (D BLOCK ASSY)

REF.NO.	PART NO.	DESCRIPTION	REMARK
	4-040-989-01	SPRING (A), TR RETAINER	
	4-040-992-01	SPRING (AA), TR RETAINER	
	4-040-994-01	SPRING (BB), TR RETAINER	
	4-051-627-21	SHEET, INSULATING	
	4-055-721-01	SHEET, INSULATOR	
	4-382-854-01	SCREW (M3X8), P, SW (+) (IC6401)	
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT(B)	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C6000	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6001	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6002	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6003	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6004	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6005	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6006	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6007	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6008	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6009	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V

REF.NO.	PART NO.	DESCRIPTION		REMARK	
C6010	1-126-941-11	ELECT	470MF	20%	25V
C6011	1-126-967-11	ELECT	47MF	20%	50V
C6012	1-126-967-11	ELECT	47MF	20%	50V
C6013	1-126-941-11	ELECT	470MF	20%	25V
C6014	1-126-967-11	ELECT	47MF	20%	50V
C6015	1-126-967-11	ELECT	47MF	20%	50V
C6016	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6017	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6018	1-126-967-11	ELECT	47MF	20%	50V
C6103	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C6104	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6106	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6107	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6110	1-126-967-11	ELECT	47MF	20%	50V
C6111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6112	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C6113	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C6115	1-126-967-11	ELECT	47MF	20%	50V
C6116	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6117	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6118	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6120	1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V
C6122	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C6123	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6124	1-126-967-11	ELECT	47MF	20%	50V
C6125	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C6126	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C6127	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6128	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C6129	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6130	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6131	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6132	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6133	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6200	1-124-903-11	ELECT	1MF	20%	50V
C6201	1-126-967-11	ELECT	47MF	20%	50V
C6202	1-104-824-11	FILM	0.0033MF	5%	50V
C6203	1-163-121-00	CERAMIC CHIP	150pF	5%	50V
C6204	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6205	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6206	1-113-700-11	FILM	0.0012MF	5%	50V
C6207	1-126-963-11	ELECT	4.7MF	20%	50V
C6208	1-113-700-11	FILM	0.0012MF	5%	50V
C6209	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C6210	1-126-963-11	ELECT	4.7MF	20%	50V
C6211	1-124-903-11	ELECT	1MF	20%	50V
C6212	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6213	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C6214	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6215	1-128-528-11	ELECT	470MF	20%	16V
C6216	1-124-925-11	ELECT	2.2MF	20%	50V
C6217	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6218	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6219	1-137-370-11	FILM	0.01MF	5%	50V
C6220	1-124-925-11	ELECT	2.2MF	20%	50V

REF.NO.	PART NO.	DESCRIPTION		REMARK	
C6221	1-124-903-11	ELECT	1MF	20%	50V
C6222	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6223	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C6303	1-126-964-11	ELECT	10MF	20%	50V
C6304	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6305	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6306	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C6308	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6309	1-136-173-00	FILM	0.47MF	5%	50V
C6310	1-137-365-11	FILM	0.0015MF	5%	50V
C6311	1-126-967-11	ELECT	47MF	20%	50V
C6312	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6313	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6314	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C6315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6316	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6317	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6319	1-126-964-11	ELECT	10MF	20%	50V
C6320	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
C6321	1-126-964-11	ELECT	10MF	20%	50V
C6322	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6323	1-163-005-11	CERAMIC CHIP	470pF	10%	50V
C6324	1-124-903-11	ELECT	1MF	20%	50V
C6325	1-163-001-11	CERAMIC CHIP	220pF	10%	50V
C6326	1-126-964-11	ELECT	10MF	20%	50V
C6327	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6328	1-113-519-11	FILM	0.22MF	5%	50V
C6329	1-137-365-11	FILM	0.0015MF	5%	50V
C6330	1-126-941-11	ELECT	470MF	20%	25V
C6331	1-137-399-11	FILM	0.1MF	5%	50V
C6332	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6333	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6334	1-137-365-11	FILM	0.0015MF	5%	50V
C6335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6336	1-137-365-11	FILM	0.0015MF	5%	50V
C6337	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6340	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C6341	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6342	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6343	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C6344	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C6400	1-162-114-00	CERAMIC	0.0047MF		2KV
C6402	1-117-398-11	ELECT	33MF	20%	250V
C6405	1-104-843-11	FILM	0.0055MF	3%	2KV
C6406	1-162-558-11	CERAMIC	100pF	10%	2KV
C6407	1-106-367-00	MYLAR	0.01MF	10%	200V
C6408	1-106-367-00	MYLAR	0.01MF	10%	200V
C6409	1-136-553-11	FILM	0.0015MF	5%	630V
C6410	1-101-884-00	CERAMIC	56pF	5%	50V
C6411	1-162-558-11	CERAMIC	100pF	10%	2KV
C6412	1-137-370-11	FILM	0.01MF	5%	50V
C6413	1-162-134-11	CERAMIC	470pF	10%	2KV
C6414	1-137-368-11	FILM	0.0047MF	5%	50V
C6415	1-137-368-11	FILM	0.0047MF	5%	50V
C6416	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C6417	1-136-173-00	FILM	0.47MF	5%	50V
C6418	1-136-173-00	FILM	0.47MF	5%	50V
C6419	1-107-913-11	ELECT	470MF	20%	50V
C6421	1-107-929-11	ELECT	10MF	20%	50V
C6424	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C6427	1-107-902-11	ELECT	1MF	20%	50V
C6428	1-126-163-11	ELECT	4.7MF	20%	50V
C6429	1-137-370-11	FILM	0.01MF	5%	50V
C6430	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6431	1-117-400-11	CAPACITOR	0	0	0
C6432	1-113-694-11	FILM	0.056MF	5%	400V
C6433	1-107-846-11	FILM	0.1MF	5%	400V
C6434	1-117-400-11	CAPACITOR	0	0	0
C6435	1-115-342-11	FILM	0.47MF	5%	400V
C6436	1-110-486-11	FILM	1MF	5%	400V
C6440	1-107-683-11	ELECT	2.2MF	0	250V
C6441	1-107-909-11	ELECT	47MF	20%	50V
C6442	1-107-909-11	ELECT	47MF	20%	50V
C6443	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6444	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6445	1-126-163-11	ELECT	4.7MF	20%	50V
C6446	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C6447	1-113-696-11	FILM	1.4MF	5%	400V
C6448	1-107-683-11	ELECT	2.2MF	0	250V
C6449	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6450	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6451	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6452	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6453	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6454	1-107-929-11	ELECT	10MF	20%	50V
C6455	1-107-513-11	FILM	0.6MF	5%	400V
C6500	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6501	1-128-528-11	ELECT	470MF	20%	25V
C6502	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6503	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6504	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C6505	1-128-528-11	ELECT	470MF	20%	25V
C6506	1-106-367-00	MYLAR	0.01MF	10%	200V
C6507	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6510	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C6511	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6512	1-163-005-11	CERAMIC CHIP	470pF	10%	50V
C6513	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6514	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6515	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6600	1-106-228-00	MYLAR	0.22MF	10%	100V
C6601	1-107-902-11	ELECT	1MF	20%	50V
C6602	1-126-105-11	ELECT	1000MF	20%	25V
C6603	1-126-105-11	ELECT	1000MF	20%	25V
C6604	1-137-399-11	FILM	0.1MF	5%	50V
C6605	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C6606	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6607	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C6608	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6609	1-107-894-11	ELECT	220MF	20%	35V
C6700	1-162-134-11	CERAMIC	470pF	10%	2KV

REF.NO.	PART NO.	DESCRIPTION			REMARK
C6701	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6702	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6703	1-109-842-11	CERAMIC	10pF	5%	2KV
C6704	1-162-114-00	CERAMIC	0.0047MF		2KV
C6705	1-162-114-00	CERAMIC	0.0047MF		2KV
C6706	1-109-842-11	CERAMIC	10pF	5%	2KV
C6707	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6708	1-163-005-11	CERAMIC CHIP	470pF	10%	50V
C6709	1-107-929-11	ELECT	10MF	20%	50V
C6711	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6712	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C6713	1-137-364-11	FILM	0.001MF	5%	50V
C6714	1-107-929-11	ELECT	10MF	20%	50V
C6715	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6716	1-107-909-11	ELECT	47MF	20%	50V
C6717	1-107-444-11	CERAMIC	100pF	5%	2KV
C6718	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6719	1-126-163-11	ELECT	4.7MF	20%	50V
C6720	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6721	1-109-889-11	ELECT	1MF	20%	50V
C6722	1-107-902-11	ELECT	1MF	20%	50V
C6723	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6727	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6728	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C6731	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6732	1-107-444-11	CERAMIC	100pF	5%	2KV
C6734	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6801	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6803	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6804	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6805	1-107-909-11	ELECT	47MF	20%	50V
C6806	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6807	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6808	1-163-003-11	CERAMIC CHIP	330pF	10%	50V
C6809	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C6810	1-107-909-11	ELECT	47MF	20%	50V
C6901	1-128-339-11	ELECT	2200MF	20%	10V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN6001*	1-564-514-11	PLUG, CONNECTOR	11P
CN6002*	1-564-508-11	PLUG, CONNECTOR	5P
CN6003*	1-564-511-11	PLUG, CONNECTOR	8P
CN6004*	1-564-516-11	PLUG, CONNECTOR	13P
CN6005*	1-564-596-11	PLUG, CONNECTOR	15P
CN6008*	1-564-596-11	PLUG, CONNECTOR	15P
CN6010*	1-778-955-11	PIN, CONNECTOR (PC BOARD)	10P
CN6011*	1-564-508-11	PLUG, CONNECTOR	5P
CN6012*	1-564-511-11	PLUG, CONNECTOR	8P

<COMPOSITION CIRCUIT BLOCK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CP6700	1-223-985-11	RESISTOR ASSY, (WF-721)	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D6000	8-719-104-34	DIODE 1S2836	
D6001	8-719-104-34	DIODE 1S2836	
D6002	8-719-801-78	DIODE 1SS184	
D6003	8-719-801-78	DIODE 1SS184	
D6004	8-719-800-76	DIODE 1SS226	
D6005	8-719-801-78	DIODE 1SS184	
D6200	8-719-158-49	ZENER DIODE RD12SB2	
D6300	8-719-404-49	DIODE MA111	
D6301	8-719-404-49	DIODE MA111	
D6302	8-719-800-76	DIODE 1SS226	
D6303	8-719-404-49	DIODE MA111	
D6304	8-719-404-49	DIODE MA111	
D6305	8-719-404-49	DIODE MA111	
D6306	8-719-404-49	DIODE MA111	
D6400	8-719-018-82	DIODE RGP02-20EL-6394	
D6401	8-719-018-82	DIODE RGP02-20EL-6394	
D6402	8-719-106-80	ZENER DIODE RD13M-B2	
D6403	8-719-048-73	DIODE ERC90M-03	
D6404	8-719-049-12	DIODE 5TUZ52	
D6405	8-719-911-19	DIODE 1SS119-25	
D6406	8-719-984-73	DIODE SB560	
D6407	8-719-911-19	DIODE 1SS119-25	
D6408	8-719-109-81	ZENER DIODE RD4.7ESB2	
D6409	8-719-911-19	DIODE 1SS119-25	
D6410	8-719-404-49	DIODE MA111	
D6412	8-719-976-99	ZENER DIODE DTZ5.1B	
D6413	8-719-106-23	ZENER DIODE RD7.5M-B2	
D6414	8-719-951-30	DIODE ERA91-02	
D6415	8-719-404-49	DIODE MA111	
D6416	8-719-404-49	DIODE MA111	
D6417	8-719-404-49	DIODE MA111	
D6418	8-719-106-44	ZENER DIODE RD9.1M-B2	
D6419	8-719-404-49	DIODE MA111	
D6424	8-719-404-49	DIODE MA111	
D6500	8-719-404-49	DIODE MA111	
D6600	8-719-976-99	ZENER DIODE DTZ5.1B	
D6601	8-719-908-03	DIODE GP08D	
D6602	8-719-908-03	DIODE GP08D	
D6603	8-719-908-03	DIODE GP08D	
D6604	8-719-911-19	DIODE 1SS119-25	
D6605	8-719-979-85	DIODE EGP20G	
D6700	8-719-028-72	DIODE RGP02-17EL-6433	
D6701	8-719-028-72	DIODE RGP02-17EL-6433	
D6702	8-719-404-49	DIODE MA111	
D6707	8-719-404-49	DIODE MA111	
D6711	8-719-911-19	DIODE 1SS119-25	
D6713	8-719-911-19	DIODE 1SS119-25	
D6714	8-719-404-49	DIODE MA111	
D6715	8-719-404-49	DIODE MA111	
D6716	8-719-404-49	DIODE MA111	
D6718	8-719-018-82	DIODE RGP02-20EL-6394	
D6801	8-719-976-99	ZENER DIODE DTZ5.1B	
D6802	8-719-911-19	DIODE 1SS119-25	
D6803	8-719-911-19	DIODE 1SS119-25	
D6804	8-719-911-19	DIODE 1SS119-25	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D6805	8-719-911-19	DIODE 1SS119-25	
D6901	8-719-404-49	DIODE MA111	
D6902	8-719-404-49	DIODE MA111	

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB6400	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB6401	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC6000	8-759-231-53	IC TA7805S	
IC6001	8-759-168-20	IC TA78L09S	
IC6100	8-759-442-18	HD6433337WA11H	
IC6101	8-759-162-80	IC MM1170BFB	
IC6102	8-759-353-44	IC ST24C08FM6TR	
IC6103	8-759-353-44	IC ST24C08FM6TR	
IC6110	8-759-442-19	HD6433337WA12H	
IC6111	8-759-162-80	IC MM1170BFB	
IC6112	8-759-178-20	IC M62354FP	
IC6200	8-759-158-84	IC CXA1543M-T6	
IC6201	8-759-100-94	IC UPC358G2	
IC6202	8-759-105-35	IC UPC78L10J	
IC6300	8-752-071-57	IC CXA1908S	
IC6301	8-759-239-55	IC TC74HC123AF	
IC6302	8-759-008-94	IC MC14027BF	
IC6303	8-759-100-94	IC UPC358G2	
IC6304	8-759-925-72	IC SN74HC02ANS	
IC6306	8-759-239-55	IC TC74HC123AF	
IC6307	8-759-011-65	IC MC74HC4053F	
IC6401	8-749-011-63	IC IRSY5305	
IC6402	8-759-103-09	IC UPC4082G2	
IC6500	8-759-708-05	IC NJM78L05A	
IC6501	8-759-803-42	IC LA6500-FA	
IC6502	8-759-100-96	IC UPC4558G2	
IC6600	8-759-103-09	IC UPC4082G2	
IC6601	8-759-980-58	IC TDA8172	
IC6700	8-759-103-09	IC UPC4082G2	
IC6701	8-759-700-69	IC NJM79L12A	
IC6702	8-759-100-94	IC UPC358G2	
IC6703	8-759-103-09	IC UPC4082G2	
IC6704	8-759-100-93	IC UPC393G2	
IC6801	8-759-822-38	IC LA6510	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L6000	1-412-537-31	INDUCTOR	100UH
L6001	1-412-537-31	INDUCTOR	100UH
L6002	1-412-537-31	INDUCTOR	100UH
L6003	1-412-537-31	INDUCTOR	100UH
L6004	1-410-482-31	INDUCTOR	100UH
L6100	1-410-482-31	INDUCTOR	100UH
L6101	1-410-482-31	INDUCTOR	100UH
L6200	1-412-537-31	INDUCTOR	100UH
L6400	1-412-537-31	INDUCTOR	100UH
L6401	1-406-675-11	COIL, CHOKE	4.7mH

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REF.NO.	PART NO.	DESCRIPTION	REMARK
L6402	1-411-478-11	COIL, HORIZONTAL LINEARITY	
L6403	1-411-709-11	COIL, HORIZONTAL LINEARITY	
L6404	1-406-671-11	COIL, CHOKE 1.0mH	
L6406	1-406-675-11	COIL, CHOKE 4.7mH	
L6701	1-416-105-11	COIL, HORIZONTAL LINEARITY	
L6801	1-412-522-31	INDUCTOR 5.6UH	
		<IC LINK>	
PS6000⚠	1-532-984-91	LINK, IC 2A/90V AC, 60V AC	
PS6001⚠	1-532-984-91	LINK, IC 2A/90V AC, 60V AC	
PS6002⚠	1-532-984-91	LINK, IC 2A/90V AC, 60V AC	
PS6400⚠	1-533-592-31	LINK, IC 1.6A/90V AC, 60V AC	
		<TRANSISTOR>	
Q6122	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6200	8-729-144-85	TRANSISTOR 2SK1133	
Q6201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6300	8-729-162-13	TRANSISTOR 2SC1621-B3	
Q6301	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q6302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q6400	8-729-927-09	TRANSISTOR IRFI9630	
Q6401	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q6402	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR	
Q6403	8-729-144-85	TRANSISTOR 2SK1133	
Q6404	8-729-821-07	TRANSISTOR 2SC3997CA	
Q6405	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR	
Q6406	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q6407	8-729-820-73	TRANSISTOR 2SC3746	
Q6408	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR	
Q6410	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q6411	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q6412	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q6413	8-729-027-96	TRANSISTOR IRLI530G	
Q6414	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q6415	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q6416	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q6417	8-729-216-22	TRANSISTOR 2SA1037K-T-146-QR	
Q6418	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6419	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q6420	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q6421	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q6500	8-729-140-50	TRANSISTOR 2SC3209LK	
Q6700	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)	
Q6702	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q6708	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q6709	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q6710	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q6711	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q6712	8-729-140-96	TRANSISTOR 2SD774-34	
Q6713	8-729-027-71	TRANSISTOR 2SC4913	
Q6715	8-729-027-71	TRANSISTOR 2SC4913	
Q6716	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q6717	8-729-027-52	TRANSISTOR DTC124EKA-T146	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<RESISTOR>	
R6001	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6002	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6004	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6005	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6006	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6007	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6008	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6009	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6010	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6011	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R6012	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6013	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R6014	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6015	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6021	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6022	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6023	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6024	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6027	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6028	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6029	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6030	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6031	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6032	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6033	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6034	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6035	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6036	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6037	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6038	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6039	1-216-295-91	CONDUCTOR, CHIP	
R6040	1-216-295-91	CONDUCTOR, CHIP	
R6041	1-216-295-91	CONDUCTOR, CHIP	
R6042	1-216-295-91	CONDUCTOR, CHIP	
R6045	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6046	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6047	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6048	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6049	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6050	1-216-295-91	CONDUCTOR, CHIP	
R6051	1-216-295-91	CONDUCTOR, CHIP	
R6052	1-216-295-91	CONDUCTOR, CHIP	
R6053	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6100	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R6101	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R6102	1-216-295-91	CONDUCTOR, CHIP	
R6103	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R6104	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R6105	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6106	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6107	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6108	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6109	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6110	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6111	1-216-025-91	METAL GLAZE 100 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R6112	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6113	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6114	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R6116	1-216-295-91	CONDUCTOR, CHIP			
R6117	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6119	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6120	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6124	1-216-035-00	METAL GLAZE	270	5%	1/10W
R6125	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6128	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6129	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6130	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6134	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6135	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6136	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6137	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6138	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6139	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6141	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R6142	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6143	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6144	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6145	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6146	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6147	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6148	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6149	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6150	1-216-035-00	METAL GLAZE	270	5%	1/10W
R6151	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6152	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6153	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6154	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6155	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6156	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6157	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6158	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6159	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6160	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6161	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6162	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6163	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6164	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R6165	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R6166	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6167	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6200	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R6201	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R6202	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R6203	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6204	1-215-378-00	METAL	16	1%	1/4W
R6205	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
R6206	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6207	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R6208	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R6209	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6210	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R6211	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R6212	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R6213	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R6214	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R6215	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6216	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R6217	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R6218	1-216-694-11	METAL CHIP	62K	0.50%	1/10W
R6219	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R6220	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R6221	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R6222	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R6223	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6224	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R6225	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6226	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6228	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R6229	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R6230	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6231	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R6232	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R6233	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R6234	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R6235	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R6305	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R6306	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6307	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6308	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6309	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6310	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6311	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6312	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R6313	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6314	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6316	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6317	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R6318	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6319	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6320	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R6321	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R6322	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6323	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6324	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R6325	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R6326	1-216-295-91	CONDUCTOR, CHIP			
R6328	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R6329	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6330	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R6331	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6332	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6333	1-216-025-91	METAL GLAZE	100	5%	1/10W
R6334	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R6335	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R6336	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R6337	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R6338	1-216-077-00	METAL GLAZE	15K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION		REMARK		
R6340	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6341	1-218-772-11	METAL CHIP	680K	0.50%	1/10W	
R6342	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R6349	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R6350	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R6351	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R6400	1-249-413-11	CARBON	470	5%	1/4W	F
R6401	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R6402	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R6403	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6404	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R6405	1-260-311-11	CARBON	39	5%	1/2W	
R6406	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6407	1-249-401-11	CARBON	47	5%	1/4W	F
R6408	1-215-861-00	METAL OXIDE	47	5%	1W	F
R6409	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R6410	1-249-429-11	CARBON	10K	5%	1/4W	F
R6411	1-214-840-00	METAL	100	1%	1/2W	
R6412	1-214-840-00	METAL	100	1%	1/2W	
R6413	1-214-840-00	METAL	100	1%	1/2W	
R6415	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	
R6416	1-216-386-11	METAL OXIDE	0.56	5%	3W	F
R6417	1-219-677-11	METAL	1.8	5%	10W	
R6418	1-216-431-11	METAL OXIDE	560	5%	1W	F
R6419	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R6420	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R6421	1-215-860-11	METAL OXIDE	33	5%	1W	F
R6422	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R6423	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R6424	1-211-796-11	FUSIBLE	1	5%	1/2W	F
R6426	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R6432	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R6433	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6434	1-208-814-11	METAL CHIP	22K	0.50%	1/10W	
R6435	1-208-814-11	METAL CHIP	22K	0.50%	1/10W	
R6436	1-208-814-11	METAL CHIP	22K	0.50%	1/10W	
R6437	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6438	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6439	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6440	1-247-807-31	CARBON	100	5%	1/4W	
R6441	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R6442	1-208-814-11	METAL CHIP	22K	0.50%	1/10W	
R6443	1-208-814-11	METAL CHIP	22K	0.50%	1/10W	
R6444	1-208-814-11	METAL CHIP	22K	0.50%	1/10W	
R6445	1-216-295-91	CONDUCTOR, CHIP				
R6446	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6447	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R6448	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R6449	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6450	1-215-863-11	METAL OXIDE	100	5%	1W	F
R6451	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	
R6452	1-249-401-11	CARBON	47	5%	1/4W	F
R6453	1-260-313-51	CARBON	56	5%	1/2W	
R6454	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6455	1-208-824-11	METAL CHIP	56K	0.50%	1/10W	
R6457	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION		REMARK		
R6458	1-249-437-11	CARBON	47K	5%	1/4W	
R6459	1-249-437-11	CARBON	47K	5%	1/4W	
R6460	1-249-437-11	CARBON	47K	5%	1/4W	
R6461	1-249-437-11	CARBON	47K	5%	1/4W	
R6462	1-249-437-11	CARBON	47K	5%	1/4W	
R6463	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R6464	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R6465	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6466	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6467	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6468	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R6469	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6470	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6471	1-247-807-31	CARBON	100	5%	1/4W	
R6472	1-260-313-51	CARBON	56	5%	1/2W	
R6473	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6474	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6475	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6476	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6477	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6478	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6479	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6480	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6481	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6482	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6483	1-208-854-11	METAL CHIP	1M	0.50%	1/10W	
R6484	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6485	1-247-807-31	CARBON	100	5%	1/4W	
R6486	1-247-807-31	CARBON	100	5%	1/4W	
R6500	1-260-288-11	CARBON	0.47	5%	1/2W	
R6501	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R6502	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6503	1-249-429-11	CARBON	10K	5%	1/4W	
R6504	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R6505	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R6506	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R6507	1-260-288-11	CARBON	0.47	5%	1/2W	
R6508	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R6510	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R6511	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R6512	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R6513	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6515	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R6516	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R6517	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6518	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6519	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6600	1-260-292-11	CARBON	1	5%	1/2W	
R6601	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6602	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	
R6603	1-260-292-11	CARBON	1	5%	1/2W	
R6604	1-249-429-11	CARBON	10K	5%	1/4W	
R6605	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R6606	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R6607	1-249-383-11	CARBON	1.5	5%	1/4W	F
R6608	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R6609	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6610	1-215-866-11	METAL OXIDE	330	5%	1W	F
R6611	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6612	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R6613	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R6614	1-249-413-11	CARBON	470	5%	1/4W	F
R6615	1-214-798-21	METAL	1.8	1%	1/2W	
R6616	1-214-798-21	METAL	1.8	1%	1/2W	
R6627	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R6700	1-219-510-11	RESISTOR(SURGE RESISTANT)	470K			
R6701	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R6702	1-219-510-11	RESISTOR(SURGE RESISTANT)	470K			
R6703	1-219-510-11	RESISTOR(SURGE RESISTANT)	470K			
R6704	1-219-720-11	METAL	10M	5%	1W	
R6705	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R6706	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R6707	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R6708	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	
R6709	1-218-758-11	METAL CHIP	180K	0.50%	1/10W	
R6710	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6711	1-219-746-11	RESISTOR (SURGE RESISTANT)	1K			
R6715	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6722	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6723	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6724	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6731	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6738	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R6739	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R6740	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R6741	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R6742	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6743	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6744	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R6745	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6746	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6747	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R6748	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R6749	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R6750	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6751	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R6755	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R6756	1-219-746-11	RESISTOR (SURGE RESISTANT)	1K			
R6757	1-218-764-11	METAL CHIP	330K	0.50%	1/10W	
R6758	1-218-754-11	METAL CHIP	120K	0.50%	1/10W	
R6759	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6760	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6761	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R6762	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6763	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R6764	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6767	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6768	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R6769	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6770	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R6771	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6773	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6774	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6775	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R6801	1-249-383-11	CARBON	1.5	5%	1/4W	F
R6802	1-249-383-11	CARBON	1.5	5%	1/4W	F
R6803	1-249-421-11	CARBON	2.2K	5%	1/4W	
R6806	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6807	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R6808	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R6809	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R6810	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R6811	1-249-385-11	CARBON	2.2	5%	1/4W	
R6812	1-249-383-11	CARBON	1.5	5%	1/4W	F
R6813	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R6814	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R6815	1-216-473-11	METAL OXIDE	56	5%	3W	F
R6816	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R6817	1-249-385-11	CARBON	2.2	5%	1/4W	
R6818	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R6819	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R6820	1-249-383-11	CARBON	1.5	5%	1/4W	F
R6821	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R6822	1-216-450-00	METAL OXIDE	82	5%	2W	F
R6901	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R6902	1-208-854-11	METAL CHIP	1M	0.50%	1/10W	

<RELAY>

REF.NO.	PART NO.	DESCRIPTION
RY6400	1-515-849-11	RELAY
RY6401	1-515-849-11	RELAY

<SPARK GAP>

REF.NO.	PART NO.	DESCRIPTION
SG6700	1-519-422-11	GAP, SPARK
SG6701	1-519-466-11	GAP, SPARK

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T6400	1-411-594-11	COIL, CHOKE 5mH
T6401	1-426-998-11	TRANSFORMER, FERRITE (HST)
T6402	1-429-303-11	TRANSFORMER, FERRITE (HDT)
T6500	1-429-970-11	TRANSFORMER, FERRITE (HCT)
T6700	1-431-105-11	TRANSFORMER, FERRITE (FRT)
T6701	1-429-971-11	TRANSFORMER, FERRITE (DFT)

<THERMISTOR>

REF.NO.	PART NO.	DESCRIPTION
TH6400	1-807-796-11	THERMISTOR

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X6100	1-579-562-11	VIBRATOR, CRYSTAL
X6101	1-579-562-11	VIBRATOR, CRYSTAL

* * *

H2 H1 J

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*8-933-218-00	INPUT SW BOARD (H2 BOARD, COMPLETE)	
		<CONNECTOR>	
CN3500	* 1-564-507-11	PLUG, CONNECTOR	4P
		<DIODE>	
D3501	8-719-800-76	DIODE 1SS226	
D3502	8-719-800-76	DIODE 1SS226	
		<RESISTOR>	
R3500	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R3501	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
		<SWITCH>	
S3500	1-570-907-11	SWITCH, SLIDE (HD15-AUTO-BNC)	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*8-933-217-00	CONTROL BLOCK BOARD (H1 BOARD, COMPLETE)	
	*4-049-089-01	HOLDER, LED	
		<CAPACITOR>	
C3001	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C3002	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C3003	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C3004	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C3005	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C3006	1-124-589-11	ELECT 47MF 20% 16V	
C3007	1-126-022-11	ELECT 47MF 20% 25V	
C3008	1-126-022-11	ELECT 47MF 20% 25V	
		<CONNECTOR>	
CN3001	* 1-778-682-11	PIN, CONNECTOR (PC BOARD) 8P	
CN3002	* 1-778-681-11	PIN, CONNECTOR (PC BOARD) 5P	
CN3003	* 1-564-519-11	PLUG, CONNECTOR 4P	
		<DIODE>	
D3001	8-719-801-78	DIODE 1SS184	
D3002	8-719-801-78	DIODE 1SS184	
D3003	8-719-104-34	DIODE 1S2836	
D3004	8-719-104-34	DIODE 1S2836	
D3030	8-719-311-90	DIODE SEL1922D-C	
D3031	8-719-045-19	DIODE SPB-26MVWF	
D3101	8-719-976-99	ZENER DIODE DTZ5.1B	
		<TRANSISTOR>	
Q3030	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q3031	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q3032	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
		<RESISTOR>	
R3000	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R3002	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R3003	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R3004	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R3005	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R3006	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R3007	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3008	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R3009	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R3010	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R3011	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R3030	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R3031	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R3032	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R3033	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3034	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R3035	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R3101	1-220-277-11	METAL GLAZE 2.2K 5% 1/4W	
R3102	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R3103	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
		<SWITCH>	
S3001	1-571-532-21	SWITCH, TACTIL (CONT +)	
S3002	1-571-532-21	SWITCH, TACTIL (CONT –)	
S3003	1-571-532-21	SWITCH, TACTIL (BRT +)	
S3004	1-571-532-21	SWITCH, TACTIL (BRT –)	
S3005	1-571-532-21	SWITCH, TACTIL (CENT)	
S3006	1-571-532-21	SWITCH, TACTIL (SIZE)	
S3007	1-571-532-21	SWITCH, TACTIL (GEON)	
S3008	1-571-532-21	SWITCH, TACTIL (CONV)	
S3009	1-571-532-21	SWITCH, TACTIL (OPTION)	
S3010	1-571-532-21	SWITCH, TACTIL (RESET)	
S3011	1-571-532-21	SWITCH, TACTIL (COLOR)	
		<THERMISTOR>	
TH3101	1-807-796-11	THERMISTOR	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*8-933-215-00	AC SW BOARD (J BOARD, COMPLETE)	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN4001	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S4001	1-571-433-21	SWITCH, PUSH (AC POWER)	

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*8-933-214-00 LCC MCB (L BOARD, COMPLETE)

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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C5001	1-126-022-11	ELECT 47MF 20% 25V	
C5002	1-126-022-11	ELECT 47MF 20% 25V	
C5008	1-126-177-11	ELECT 100MF 20% 10V	
C5009	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5101	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5102	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5103	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5105	1-104-664-11	ELECT 47MF 20% 25V	
C5106	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5107	1-137-399-11	FILM 0.1MF 5% 50V	
C5108	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5110	1-104-664-11	ELECT 47MF 20% 25V	
C5111	1-137-399-11	FILM 0.1MF 5% 50V	
C5201	1-126-022-11	ELECT 47MF 20% 25V	
C5202	1-126-022-11	ELECT 47MF 20% 25V	
C5203	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5204	1-137-399-11	FILM 0.1MF 5% 50V	
C5205	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5301	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5303	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5305	1-104-664-11	ELECT 47MF 20% 25V	
C5306	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5307	1-137-399-11	FILM 0.1MF 5% 50V	
C5308	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5310	1-104-664-11	ELECT 47MF 20% 25V	
C5311	1-137-399-11	FILM 0.1MF 5% 50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN5001	* 1-564-516-11	PLUG, CONNECTOR 13P	
CN5002	* 1-564-513-11	PLUG, CONNECTOR 10P	
CN5005	* 1-564-506-11	PLUG, CONNECTOR 3P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D5101	8-719-976-96	DIODE DTZ4.7C	
D5102	8-719-404-49	DIODE MA111	
D5103	8-719-404-49	DIODE MA111	
D5104	8-719-404-49	DIODE MA111	
D5105	8-719-404-49	DIODE MA111	
D5201	8-719-404-49	DIODE MA111	
D5202	8-719-404-49	DIODE MA111	
D5302	8-719-404-49	DIODE MA111	
D5303	8-719-404-49	DIODE MA111	
D5304	8-719-404-49	DIODE MA111	
D5305	8-719-404-49	DIODE MA111	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC5001	1-473-975-11	SENSOR UNIT, MAGNETIC CONPASS	
IC5101	8-759-822-38	IC LA6510	
IC5201	8-759-803-42	IC LA6500-FA	
IC5301	8-759-822-38	IC LA6510	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L5001	1-412-537-31	INDUCTOR 100UH	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R5001	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R5002	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R5004	1-216-295-91	CONDUCTOR, CHIP	
R5005	1-216-295-91	CONDUCTOR, CHIP	
R5006	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R5101	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5102	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5103	1-220-261-11	METAL GLAZE 470 5% 1/4W	
R5105	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R5106	1-216-695-11	METAL CHIP 68K 0.50% 1/10W	
R5107	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R5110	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R5111	1-220-230-11	METAL GLAZE 2.2 10% 1/4W	
R5112	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5113	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
R5114	1-249-441-11	CARBON 100K 5% 1/4W	
R5115	1-215-885-00	METAL OXIDE 68 5% 2W	F
R5116	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R5117	1-220-230-11	METAL GLAZE 2.2 10% 1/4W	
R5119	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
R5120	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5121	1-249-441-11	CARBON 100K 5% 1/4W	
R5122	1-215-885-00	METAL OXIDE 68 5% 2W	F
R5201	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5202	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5203	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5204	1-249-441-11	CARBON 100K 5% 1/4W	
R5205	1-208-814-11	METAL CHIP 22K 0.50% 1/10W	
R5206	1-216-449-11	METAL OXIDE 56 5% 2W	F
R5207	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R5301	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5302	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5310	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R5311	1-220-230-11	METAL GLAZE 2.2 10% 1/4W	
R5312	1-249-383-11	CARBON 1.5 5% 1/4W	F
R5313	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	

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Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION		REMARK		
R5314	1-249-441-11	CARBON	100K	5%	1/4W	
R5315	1-215-885-71	METAL OXIDE	68	5%	1W	F
R5316	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R5317	1-220-230-11	METAL GLAZE	2.2	10%	1/4W	
R5319	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R5320	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5321	1-249-441-11	CARBON	100K	5%	1/4W	
R5322	1-215-885-71	METAL OXIDE	68	5%	1W	F

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MISCELLANEOUS
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REF.NO.	PART NO.	DESCRIPTION
⚠	1-251-382-12	INLET, AC 3P(WITH NOISE FILTE)
	1-415-968-11	COIL, LANDING CORRECTION (NS)
	1-415-969-11	COIL, LANDING CORRECTION
⚠	1-415-970-11	COIL, DEGAUSS
	1-573-983-31	CONNECTOR(D SUB)(CONVERTER)15P
⚠	1-765-718-11	CORD SET, POWER (10A/125V) (U/C)
⚠	1-765-717-11	CORD SET, POWER (10A/250V) (AEP)
	1-774-648-21	ADAPTOR, CONVERSION
	1-776-210-11	CABLE ASSY (15P DSUB X2 CONNECTOR)
*	1-777-729-11	CABLE, COAXIAL (R)
*	1-777-729-21	CABLE, COAXIAL (G)
*	1-777-729-31	CABLE, COAXIAL (B)
⚠	8-451-481-11	DEFLECTION YOKE (Y24FIK-M)
⚠	8-453-013-11	NECK ASSY, PICTURE TUBE (NA298-M)
V901 ⚠	8-733-002-05	PICTURE TUBE (24FIF)
⚠	8-733-002-80	ITC ASSY (24FIF-R1)

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